

# KOLAS 공인시험기관 인정서

## 주식회사 에이치시티

인 정 번 호 : KT197

법 인 등 록 번 호 : 134411-0015635  
(또는 고유번호)

사 업 장 소 재 지 : (소재지)경기도 이천시 마장면 서이천로578번길 2-6, 73, 74  
(부속시설-2)경기도 의왕시 철도박물관로 37  
(부속시설-3)경기도 수원시 영통구 신원로 304

최 초 인 정 일 자 : 2003년 03월 28일

인 정 유효 기 간 : 2023년 12월 22일 ~ 2027년 12월 21일

인정분야 및 범위 : 별첨

발 행 일 : 2025년 10월 23일

상기 기관을 국가표준기본법 제23조, 적합성평가 관리 등에 관한 법률 제8조 및 KS Q ISO/IEC 17025:2017에 의거하여 KOLAS 공인시험기관으로 인정합니다. 또한 ISO-ILAC-IAF 공동성명에 언급된 바와 같이 인정된 분야 및 범위에 대한 기술적 능력과 시험기관의 품질경영 시스템이 적절함을 인정합니다.



한국인정기구

(Korea Laboratory Accreditation Scheme)



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## 03. 전기시험

### 03.004 전기재료 및 부품

| 규격번호                                                                  | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                 | 시험범위                                                                                                                                                                                                  | 사업장 | 현장 시험 |
|-----------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|
| ANSI/CAN/UL 1973:2022                                                 | 전기재료 및 부품 | Batteries for Use in Stationary, And Motive Auxiliary Power Applications                                                                                                                                                                                            | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>온도:(-65 ~ 200) °C                                                                                                                                       | 소재지 | N     |
| ANSI/CAN/UL/ULC 2271:2023                                             | 전기재료 및 부품 | Batteries for Use In Light Electric Vehicle (LEV) Applications                                                                                                                                                                                                      | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C                                                                                                                              | 소재지 | N     |
| E/ECE/324/Rev.2/Add.135/Amend.1-E/ECE/TRANS/505/Rev.2/Add.135/Amend.1 | 전기재료 및 부품 | Addendum 135 - Regulation No. 136, Amendment 1<br>Uniform provisions concerning the approval of vehicles of category L with regard to specific requirements for the electric power train, Annex 9: REESS test procedures<br>[Exception]<br>Annex 9E Fire resistance | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C<br>Frequency:(7 ~ 200) Hz<br>Acceleration:(1 ~ 100) m/s <sup>2</sup><br>Shock<br>Acceleration:(200 ~ 1 962) m/s <sup>2</sup> | 소재지 | N     |

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| 규격번호                                                                            | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 시험범위                                                                                                                                                                                              | 사업장 | 현장시험 |
|---------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| E/ECE/324/Rev.2/Add.99/Rev.3/Amend.3-E/ECE/TRANS/505/Rev.2/Add.99/Rev.3/Amend.3 | 전기재료 및 부품 | Addendum 99 - Regulation No. 100, Revision 3- Amendment 3<br>Uniform provisions concerning the approval of vehicles with regard to specific requirements for the electric power train, Annex 9: REESS test procedures<br>[Exception]<br>Annex 9C Mechanical shock<br>Annex 9E Fire resistance<br>Annex 9F External short circuit protection<br>3.1.(d) For testing with a complete vehicle<br>Annex 9G Overcharge protection<br>3.2.1 ~ 3.2.3 vehicle-based test<br>Annex 9H Overdischarge protection<br>3.2.1 ~ 3.2.3 vehicle-based test<br>Annex 9I Overtemperature protection<br>5 ~ 6 complete vehicle test<br>Annex 9J Over-current protection<br>5 Overcurrent during charging using breakout harness. | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C<br>Frequency:(7 ~ 200) Hz<br>Acceleration:(1 ~ 100) m/s <sup>2</sup><br>Force: Max 195 kN                                | 소재지 | N    |
| EN 62133-1:2017                                                                 | 전기재료 및 부품 | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 1:Nickel systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>Temperature:(-65 ~ 200) °C<br>Pressure: (10.0 ~ 11.6) kPa<br>Vibration:(10 ~ 55) Hz, (Displacement amplitude 0.76 mm, Maximum displacement width 1.52 mm) | 소재지 | N    |

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| 규격번호                    | 제품 및 물질   | 규격명                                                                                                                                                                                                                                      | 시험범위                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 62133-2:2017         | 전기재료 및 부품 | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>Temperature:(-65 ~ 200) °C<br>Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm)                                 | 소재지 | N    |
| EN 62133-2:2017+A1:2021 | 전기재료 및 부품 | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>Temperature:(-65 ~ 200) °C<br>Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm)                                 | 소재지 | N    |
| EN 62133:2013           | 전기재료 및 부품 | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications                           | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>Temperature:(-65 ~ 200) °C<br>Pressure:(10.0 ~ 11.6) kPa<br>Vibration:(10 ~ 55) Hz, (Displacement amplitude 0.76 mm, Maximum displacement width 1.52 mm) | 소재지 | N    |
| IEC 60086-4:2014        | 전기재료 및 부품 | Primary batteries - Part 4: Safety of lithium batteries                                                                                                                                                                                  | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>Temperature:(-65 ~ 200) °C<br>Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm)                                 | 소재지 | N    |
| IEC 60086-4:2019        | 전기재료 및 부품 | Primary batteries - Part 4: Safety of lithium batteries                                                                                                                                                                                  | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>Temperature:(-65 ~ 200) °C<br>Pressure: (10.0 ~ 11.6) kPa<br>Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm)  | 소재지 | N    |

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| 규격번호                       | 제품 및 물질   | 규격명                                                                                                                                                                                                                                          | 시험범위                                                                                                                                                                                              | 사업장 | 현장시험 |
|----------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 61960-3:2017           | 전기재료 및 부품 | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for portable applications - Part 3: Prismatic and cylindrical lithium secondary cells, and batteries made from them | DC voltage:(-5 ~ 150) V<br>DC current:(-250 ~ 250) A<br>Temperature:(-65 ~ 200) °C                                                                                                                | 소재지 | N    |
| IEC 62133-1:2017           | 전기재료 및 부품 | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 1: Nickel systems      | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>Temperature:(-65 ~ 200) °C<br>Pressure: (10.0 ~ 11.6) kPa<br>Vibration:(10 ~ 55) Hz, (Displacement amplitude 0.76 mm, Maximum displacement width 1.52 mm) | 소재지 | N    |
| IEC 62133-2:2017           | 전기재료 및 부품 | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems     | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>Temperature:(-65 ~ 200) °C<br>Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm)                                  | 소재지 | N    |
| IEC 62133-2:2017/AMD1:2021 | 전기재료 및 부품 | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems     | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>Temperature:(-65 ~ 200) °C<br>Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm)                                  | 소재지 | N    |

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| 규격번호             | 제품 및 물질   | 규격명                                                                                                                                                                                                            | 시험범위                                                                                                                                                                                                  | 사업장 | 현장시험 |
|------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 62133:2012   | 전기재료 및 부품 | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>Temperature:(-65 ~ 200) °C<br>Pressure: (10.0 ~ 11.6) kPa<br>Vibration:(10 ~ 55) Hz, (Displacement amplitude 0.76 mm, Maximum displacement width 1.52 mm)     | 소재지 | N    |
| IEC 62281:2019   | 전기재료 및 부품 | Safety of primary and secondary lithium cells and batteries during transport                                                                                                                                   | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C<br>Pressure: (10.0 ~ 11.6) kPa<br>Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | 소재지 | N    |
| IEC 62619:2017   | 전기재료 및 부품 | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications                           | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C                                                                                                                              | 소재지 | N    |
| IEC 62619:2022   | 전기재료 및 부품 | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications                           | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>온도:(-65 ~ 200) °C                                                                                                                                       | 소재지 | N    |
| IEC 62620:2014   | 전기재료 및 부품 | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Secondary lithium cells and batteries for use in industrial applications                                                    | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C                                                                                                                              | 소재지 | N    |
| IEC 62660-1:2018 | 전기재료 및 부품 | Secondary lithium-ion cells for the propulsion of electric road vehicles - Part 1:Performance testing                                                                                                          | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C                                                                                                                              | 소재지 | N    |

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| 규격번호               | 제품 및 물질   | 규격명                                                                                                                                                                                           | 시험범위                                                                                                                                                                                                 | 사업장 | 현장시험 |
|--------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 62660-2:2018   | 전기재료 및 부품 | Secondary lithium-ion cells for the propulsion of electric road vehicles - Part 2: Reliability and abuse testing                                                                              | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C<br>Vibration:(10 ~ 2 000) Hz, (0.14 ~ 20) (m/s <sup>2</sup> ) <sup>2</sup> /Hz<br>r.m.s. acceleration 27.8 m/s <sup>2</sup> | 소재지 | N    |
| IEC 62660-3:2016   | 전기재료 및 부품 | Secondary lithium-ion cells for the propulsion of electric road vehicles - Part 3: Safety requirements                                                                                        | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C                                                                                                                             | 소재지 | N    |
| IEC 62660-3:2022   | 전기재료 및 부품 | Secondary lithium-ion cells for the propulsion of electric road vehicles - Part 3: Safety requirements                                                                                        | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C                                                                                                                             | 소재지 | N    |
| IEC 63056:2020     | 전기재료 및 부품 | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries for use in electrical energy storage systems | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C                                                                                                                             | 소재지 | N    |
| IEC 63057:2020     | 전기재료 및 부품 | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium batteries for use in road vehicles not for the propulsion        | DC:(-5 ~ 60) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C<br>Vibration:(7 ~ 50)Hz, (2 ~ 10) m/s <sup>2</sup>                                                                             | 소재지 | N    |
| JIS C 62133-2:2020 | 전기재료 및 부품 | Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems                                         | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>Temperature:(-65 ~ 200) °C<br>Pressure: (10.0 ~ 11.6) kPa<br>Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm)      | 소재지 | N    |

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| 규격번호                  | 제품 및 물질   | 규격명                                                                                             | 시험범위                                                                                                                                                                | 사업장 | 현장시험 |
|-----------------------|-----------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KC 62133-2:2020       | 전기재료 및 부품 | 휴대기기용 밀폐 리튬이차 전지 안전                                                                             | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>온도:(-65 ~ 200) °C<br>고도:(10.0 ~ 11.6) kPa<br>진동:(7 ~ 200) Hz,<br>(진폭 0.8 mm, 최대 변위 폭 1.6 mm)                                | 소재지 | N    |
| KC 62619:2019         | 전기재료 및 부품 | 산업용 리튬이차전지 안전                                                                                   | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>온도:(-65 ~ 200) °C                                                                                                     | 소재지 | N    |
| KC 62619:2023         | 전기재료 및 부품 | 산업용 리튬이차전지 안전                                                                                   | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>온도:(-65 ~ 200) °C                                                                                                     | 소재지 | N    |
| KS C IEC 61960-3:2017 | 전기재료 및 부품 | 알칼리 또는 기타 비산성 전해질을 포함하는 이차 단전지 및 전지 - 휴대기기용 리튬 이차 단전지 및 전지 - 제3부:각형 및 원통형 리튬 이차 단전지 및 이로 구성된 전지 | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>온도:(-65 ~ 200) °C                                                                                                           | 소재지 | N    |
| KS C IEC 62133-1:2017 | 전기재료 및 부품 | 알칼리 또는 기타 비산성 전해질을 포함하는 이차 단전지 및 전지 - 휴대기기용 밀폐 이차 단전지 및 이로 구성된 전지의 안전 요구사항 - 제1부:니켈 시스템         | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>온도:(-65 ~ 200) °C<br>고도:(10.0 ~ 11.6) kPa<br>진동:(10 ~ 55) Hz,<br>(진폭 0.76 mm 최대 변위 폭 1.52 mm)                               | 소재지 | N    |
| KS C IEC 62133-2:2017 | 전기재료 및 부품 | 알칼리 또는 기타 비산성 전해질을 포함하는 이차 단전지 및 전지 - 휴대기기용 밀폐 이차 단전지 및 이로 구성된 전지의 안전 요구사항 - 제2부:리튬 시스템         | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>온도:(-65 ~ 200) °C<br>진동:(7 ~ 200) Hz,<br>(진폭 0.8 mm, 최대 변위 폭 1.6 mm)                                                        | 소재지 | N    |
| KS C IEC 62133-2:2021 | 전기재료 및 부품 | 알칼리 또는 기타 비산성 전해질을 포함하는 이차 단전지 및 전지 - 휴대기기용 밀폐 이차 단전지 및 이로 구성된 전지의 안전 요구사항 - 제2부:리튬 시스템         | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>Temperature:(-65 ~ 200) °C<br>Vibration:(7 ~ 200) Hz,<br>(Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | 소재지 | N    |
| KS C IEC 62619:2022   | 전기재료 및 부품 | 알칼리 또는 기타 비산성 전해질을 포함하는 이차 단전지 및 전지 - 산업용 리튬 이차 단전지 및 전지의 안전 요구사항                               | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>온도:(-65 ~ 200) °C                                                                                                     | 소재지 | N    |

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| 규격번호                                       | 제품 및 물질   | 규격명                                                                                                                                                | 시험범위                                                                                                                                                                                                    | 사업장 | 현장시험 |
|--------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KS C IEC<br>62620:2014                     | 전기재료 및 부품 | 알칼리 또는 기타 비산성 전해질을 포함하는 이차전지 셀 및 전지 - 산업용으로 사용되는 리튬이차전지 셀 및 전지                                                                                     | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>온도:(-65 ~ 200) °C                                                                                                                                         | 소재지 | N    |
| Ministerial Ordinance<br>1,Appendix 9:2008 | 전기재료 및 부품 | Technical requirement by the Ministerial Ordinance for electrical appliance Ministerial Ordinance 1, Appendix 9<br>Lithium ion secondary batteries | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>Temperature:(-65 ~ 200) °C<br>Pressure: (10.0 ~ 11.6) kPa<br>Vibration:(10 ~ 55) Hz,<br>(Displacement amplitude 0.76 mm, Maximum displacement width 1.52 mm)    | 소재지 | N    |
| SPS-C KBIA-<br>10100-02-<br>7487:2022      | 전기재료 및 부품 | 소형 무인동력비행장치용 리튬이차전지-성능 시험방법                                                                                                                        | DC 전압:(0 ~ 80) V<br>DC 전류:(-250 ~ 250) A<br>온도:(-50 ~ 100) °C                                                                                                                                           | 소재지 | N    |
| SPS-C KBIA-<br>10104-03-<br>7312:2022      | 전기재료 및 부품 | 에너지저장시스템용 리튬이차전지시스템 - 성능과 안전                                                                                                                       | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>온도:(-65 ~ 200) °C                                                                                                                                         | 소재지 | N    |
| ST/SG/AC.10/11/R<br>ev.7:2019              | 전기재료 및 부품 | Recommendations on the TRANSPORT OF DANGEROUS GOODS -Manual of Tests and Criteria (38.3 Lithium metal and lithium ion batteries)                   | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C<br>Pressure: (10.0 ~ 11.6) kPa<br>Vibration:(7 ~ 200) Hz<br>(Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | 소재지 | N    |
| ST/SG/AC.10/11/R<br>ev.7:Amend.1:2021      | 전기재료 및 부품 | Recommendations on the TRANSPORT OF DANGEROUS GOODS-Manual of Tests and Criteria (38.3 Lithium metal and lithium ion batteries)                    | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>Temperature:(-65 ~ 200) °C<br>Vibration:(7 ~ 200) Hz,<br>(Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm)                                     | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질   | 규격명                                                                                                 | 시험범위                                                                                                                                                                                                     | 사업장 | 현장시험 |
|-------------------------------|-----------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| ST/SG/AC.10/11/R<br>ev.8:2023 | 전기재료 및 부품 | Manual of Tests and Criteria<br>(38.3 Lithium metal, lithium ion and sodium ion batteries)          | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C<br>Pressure: (10.0 ~ 11.6) kPa<br>Vibration:(7 ~ 200) Hz<br>(Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm)  | 소재지 | N    |
| UL 1642:2020                  | 전기재료 및 부품 | Lithium Batteries                                                                                   | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C<br>Pressure: (10.0 ~ 11.6) kPa<br>Vibration:(10 ~ 55) Hz,<br>(Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | 소재지 | N    |
| UL 1973:2018                  | 전기재료 및 부품 | Batteries for Use in Stationary, Vehicle Auxiliary Power and Light Electric Rail (LER) Applications | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C                                                                                                                                 | 소재지 | N    |
| UL 2054:Edition 3:2022        | 전기재료 및 부품 | Household and Commercial Batteries                                                                  | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C<br>Pressure: (10.0 ~ 11.6) kPa<br>Vibration:(7 ~ 200) Hz,<br>(Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | 소재지 | N    |
| UL 2580:2020                  | 전기재료 및 부품 | Batteries for Use In Electric Vehicles                                                              | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C<br>Vibration:(10 ~ 2 000) Hz, (0.14 ~ 20) (m/s <sup>2</sup> ) <sup>2</sup> /Hz<br>r.m.s. acceleration 27.8 m/s <sup>2</sup>     | 소재지 | N    |
| UL 2595:2018                  | 전기재료 및 부품 | General requirements for Battery-Powered Appliances                                                 | DC:(-5 ~ 1 500) V<br>DC:(-1 000 ~ 1 000) A<br>Temperature:(-65 ~ 200) °C                                                                                                                                 | 소재지 | N    |

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# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                                | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 시험범위                                                                                                                                                                                                 | 사업장 | 현장시험 |
|-------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| UL 62133-2:2020                     | 전기재료 및 부품 | Secondary cells and batteries containing alkaline or other non - acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 2:Lithium Systems                                                                                                                                                                                                                                                                      | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>Temperature:(-65 ~ 200) °C<br>Vibration:(7 ~ 200)Hz,<br>(Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm)                                   | 소재지 | N    |
| UL 62133:2017                       | 전기재료 및 부품 | Secondary cells and batteries containing alkaline or other non - acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications circuit (cells)                                                                                                                                                                                                                                                                               | DC:(-5 ~ 150) V<br>DC:(-250 ~ 250) A<br>Temperature:(-65 ~ 200) °C<br>Pressure: (10.0 ~ 11.6) kPa<br>Vibration:(10 ~ 55) Hz,<br>(Displacement amplitude 0.76 mm, Maximum displacement width 1.52 mm) | 소재지 | N    |
| 국토교통부 고시 제 2025-73호<br>(2025.2.17.) | 전기재료 및 부품 | 자동차 및 자동차 부품의 성능과 기준 시험세척<br>별표1 48 구동축전지 안전성 시험<br>[제외항목]<br>48.7.3 연소시험<br>48.7.4.3.4 단락시험(실차 단위시험)<br>48.7.5.3.5.1 ~<br>48.7.5.3.5.3 과충전시험의 실차 단위시험<br>48.7.6.3.5.1 ~<br>48.7.6.3.5.3 과방전시험의 실차 단위시험<br>48.7.7.2.2, 48.7.7.3.2 과열방지시험의 실차 단위시험<br>48.7.8.3.1 과전류시험의 실차 단위시험<br>48.7.10 기계적 충격시험<br>48.8.3 연소시험<br>48.8.9 충격시험<br><br>별표1 48의2 이륜자동차의 구동축전지 안전성시험<br>[제외항목]<br>48의2.7.3 연소시험<br>48의2.7.5.3.5.1 과충전시험의 실차 단위시험<br>48의2.7.6.3.5.1 과방전시험의 실차 단위시험<br>48의2.7.7.2.2, 48의2.7.7.3.2 과열방지시험의 실차 단위시험 | DC 전압:(-5 ~ 1 500) V<br>DC 전류:(-1 000 ~ 1 000) A<br>온도:(-65 ~ 200) °C<br>주파수:(7 ~ 200) Hz<br>가속도:(1 ~ 100) m/s2<br>힘: 최대 195 kN<br>염도:(1 ~ 15) %                                                     | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

## 03. 전기시험

### 03.005 계측기기

| 규격번호                    | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 사업장 | 현장 시험 |
|-------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|
| EN 61010-1:2010         | 계측기기    | <p>Safety requirement for electrical equipment for measurement, control and laboratory use - Part 1:General requirements</p> <p>[Exception]<br/>           10.5.3 Insulating materials (Vicat)<br/>           11.7 Fluid pressure &amp; leakage<br/>           12.2.1 Ionizing radiation<br/>           12.3 UV Radiation<br/>           12.4 Microwave Radiation<br/>           12.5.1 Sound pressure level<br/>           12.5.2 Ultrasonic pressure<br/>           12.6 Laser sources<br/>           13.2.3 High vacuum devices<br/>           Annex H Qualification of conformal coating for protection against pollution</p> | <p>Single-phase input voltage: Less than AC 300 V<br/>           Single-phase input current: Less than 20 A<br/>           Frequency range: (50 to 60) Hz<br/>           Withstand voltage range: (0 ~ 5) kV<br/>           Leakage current range: (0 ~ 10) mA<br/>           Ground continuity voltage: Less than AC/DC 12 V<br/>           Ground continuity current: Less than AC/DC 45 A<br/>           Temperature: (0 ~ 200)°C<br/>           Relative humidity: Less than 96 % R.H.</p> | 소재지 | N     |
| EN 61010-1:2010+A1:2019 | 계측기기    | <p>Safety requirement for electrical equipment for measurement, control and laboratory use - Part 1:General requirements</p> <p>[Exception]<br/>           10.5.3 Insulating materials (Vicat)<br/>           11.7 Fluid pressure &amp; leakage<br/>           12.2 Equipment producing ionizing radiation<br/>           12.3 UV Radiation<br/>           12.4 Microwave Radiation<br/>           12.5 Sound level<br/>           12.6 Laser sources<br/>           13.2.3 Implosion of cathode ray tubes<br/>           Annex H Qualification of conformal coating for protection against pollution</p>                         | <p>Single-phase input voltage: Less than AC 300 V<br/>           Single-phase input current: Less than 20 A<br/>           Frequency range: (50 to 60) Hz<br/>           Withstand voltage range: (0 ~ 5) kV<br/>           Leakage current range: (0 ~ 10) mA<br/>           Ground continuity voltage: Less than AC/DC 12 V<br/>           Ground continuity current: Less than AC/DC 45 A<br/>           Temperature: (0 ~ 200)°C<br/>           Relative humidity: Less than 96 % R.H.</p> | 소재지 | N     |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                             | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                               | 사업장 | 현장시험 |
|----------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 61010-1<br>Edition 3.1(2017) | 계측기기    | Safety requirement for electrical equipment for measurement, control and laboratory use - Part 1: General requirements<br><br>[Exception]<br>10.5.3 Insulating materials (Vicat)<br>11.7 Fluid pressure & leakage<br>12.2 Equipment producing ionizing radiation<br>12.3 UV Radiation<br>12.4 Microwave Radiation<br>12.5 Sound level<br>12.6 Laser sources<br>13.2.3 Implosion of cathode ray tubes<br>Annex H Qualification of conformal coating for protection against pollution | Single-phase input voltage:<br>Less than AC 300 V<br>Single-phase input current:<br>Less than 20 A<br>Frequency range:<br>(50 to 60) Hz<br>Withstand voltage range:<br>(0 ~ 5) kV<br>Leakage current range:<br>(0 ~ 10) mA<br>Ground continuity voltage:<br>Less than AC/DC 12 V<br>Ground continuity current:<br>Less than AC/DC 45 A<br>Temperature:<br>(0 ~ 200)°C<br>Relative humidity:<br>Less than 96 % R.H. | 소재지 | N    |
| KS C IEC 61010-1:2010            | 계측기기    | 측정, 제어 및 실험실용 전기장비의 안전 요구사항 - 제1부:일반 요구사항<br><br>[제외항목]<br>10.5.3 절연 재료 (Vicat)<br>11.7 유체 압력 및 누출<br>12.2 전리 방사선<br>12.3 자외선(UV) 방사<br>12.4 전자파<br>12.5 음파 및 초음파 압력<br>12.6 레이저 광원<br>13.2.3 음극선관의 폭발<br>Annex H 오염 방지를 위한 등각 코팅의 자격                                                                                                                                                                                                                                               | 단상 입력전압:AC 300 V 이하<br>단상 입력전류:20 A 이하<br>주파수 범위:(50 ~ 60) Hz<br>내전압 범위:(0 ~ 5) kV<br>누설전류 범위:(0 ~ 10) mA<br>접지 연속성 전압:AC 또는 DC 12 V 이하<br>접지 연속성 전류:AC 또는 DC 45 A 이하<br>온도:(0 ~ 200) °C<br>상대습도:96 % R.H. 이하                                                                                                                                                                                                      | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

## 03. 전기시험

### 03.007 가정용 전기기기

| 규격번호                | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                     | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장 시험 |
|---------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|
| AS/NZS 60950.1:2011 | 가정용 전기기기 | Information technology equipment - Safety Part 1:General requirements<br><br>[Exception]<br>2.10.8.4 Abrasion resistance test<br>3.2.5.1 AC power supply cords<br>4.2.8 Cathode ray tubes<br>4.3.12 Flammable liquids<br>4.3.13.2 Ionizing radiation<br>4.3.13.3 UV<br>4.3.13.4 Human exposure to ultraviolet (UV) radiation<br>4.3.13.5 Laser<br>ANNEX A.3 Hot flaming oil test<br>ANNEX H Ionizing radiation<br>ANNEX AA Mandrel test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N     |

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제 KT197호

| 규격번호                   | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                     | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| AS/NZS<br>60950.1:2015 | 가정용 전기기기 | Information technology equipment - Safety Part 1:General requirements<br><br>[Exception]<br>2.10.8.4 Abrasion resistance test<br>3.2.5.1 AC power supply cords<br>4.2.8 Cathode ray tubes<br>4.3.12 Flammable liquids<br>4.3.13.2 Ionizing radiation<br>4.3.13.3 UV<br>4.3.13.4 Human exposure to ultraviolet (UV) radiation<br>4.3.13.5 Laser<br>ANNEX A.3 Hot flaming oil test<br>ANNEX H Ionizing radiation<br>ANNEX AA Mandrel test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 사업장 | 현장시험 |
|---------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| AS/NZS 62368.1:2018 | 가정용 전기기기 | <p>Audio/video, information and communication technology equipment - Part 1: Safety requirements</p> <p>[Exception]<br/>                     5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly mounted / Vicat test B 50 of ISO 306<br/>                     5.4.1.4, 9.2.5 Maximum operating temperatures for materials, components and systems / Three phase voltage supply systems 5.4.2, 5.4.3, 5.4.4<br/>                     Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112 5.4.2, 5.4.3, 5.4.4<br/>                     Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112 / Mandrel (figure 25 to 28), metal foil, equipment suitable for electrical strength test loads Stop watch, weight<br/>                     5.4.1.5.3 Thermal cycling test procedure<br/>                     5.6.4.1 Determination of the overcurrent protective device and circuit (Annex R) / Source with at least 1500A short circuit<br/>                     10 Radiations / Laser (including laser diodes)<br/>                     10 Radiations / Light emitting diodes (LEDs)<br/>                     10 Radiations / X-ray 10 Radiations / Effect of UV radiation on materials (Annex C)<br/>                     10 Radiations / Human exposure to UV radiation (Annex C)<br/>                     Annex G.7 Mains supply cords / Test equipment according IEC 60227</p> | <p>Single-phase input voltage: Less than AC 600 V<br/>                     Single-phase input current: Less than 20 A<br/>                     Frequency range: (50 to 60) Hz<br/>                     Withstand voltage range: (0 ~ 10) kV<br/>                     Leakage current range: (0 ~ 10) mA<br/>                     Ground continuity voltage: Less than AC/DC 12 V<br/>                     Ground continuity current: Less than AC/DC 45 A<br/>                     Temperature: (-40 ~ 850)°C<br/>                     Relative humidity: Less than 98 % R.H.<br/>                     Insulation resistance reference voltage: Less than DC 1 000 V<br/>                     Insulation resistance measurement range: 4 000 MΩ</p> | 소재지 | N    |

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| 규격번호 | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 시험범위 | 사업장 | 현장시험 |
|------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|
|      |         | Annex G.9 IC current limiters<br>Annex G.13.6.2 Test method and compliance criteria<br>Annex G.13.6.2 Abrasion resistance test<br>Annex G.15 Hydrostatic pressure<br>Annex G.15 Tubing and fittings compatibility test<br>Annex J Insulated winding wires for use without interleaved insulation<br>Annex M.8.2 Protection against internal ignition from external spark sources - Spark Test<br>Annex S Tests for resistance to heat and fire / Distillate fuel oil as described in Annex S.3.2<br>Annex U Mechanical strength of CRTs and protection against the effects of implosion |      |     |      |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                   | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 사업장 | 현장시험 |
|------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| AS/NZS<br>62368.1:2022 | 가정용 전기기기 | <p>Audio/video, information and communication technology equipment - Part 1: Safety requirements</p> <p>[Exception]<br/>5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly mounted / Vicat test B 50 of ISO 306<br/>5.4.1.4, 9.2.5 Maximum operating temperatures for materials, components and systems / Three phase voltage supply systems 5.4.2, 5.4.3, 5.4.4<br/>Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112 5.4.2, 5.4.3, 5.4.4<br/>Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112 / Mandrel (figure 25 to 28), metal foil, equipment suitable for electrical strength test loads Stop watch, weight 5.4.1.5.3 Thermal cycling test procedure 5.6.4.1 Determination of the overcurrent protective device and circuit (Annex R) / Source with at least 1500A short circuit<br/>10 Radiations / Laser (including laser diodes)<br/>10 Radiations / Light emitting diodes (LEDs)<br/>10 Radiations / X-ray 10 Radiations / Effect of UV radiation on materials (Annex C)<br/>10 Radiations / Human exposure to UV radiation (Annex C)</p> | <p>Single-phase input voltage: Less than AC 600 V<br/>Single-phase input current: Less than 20 A<br/>Frequency range: (50 to 60) Hz<br/>Withstand voltage range: (0 ~ 10) kV<br/>Leakage current range: (0 ~ 10) mA<br/>Ground continuity voltage: Less than AC/DC 12 V<br/>Ground continuity current: Less than AC/DC 45 A<br/>Temperature: (-40 ~ 850)°C<br/>Relative humidity: Less than 98 % R.H.<br/>Insulation resistance reference voltage: Less than DC 1 000 V<br/>Insulation resistance measurement range: 4 000 MΩ</p> | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| CAN/CSA-C22.2<br>No. 60065:03 | 가정용 전기기기 | Audio, Video and similar electronic apparatus - Safety requirements<br><br>[Exception]<br>6.1 Ionizing radiation<br>6.2 Laser radiation<br>7.2 Softening Temperature<br>12.3 REMOTE CONTROL devices held in hand<br>14.2 Capacitor<br>14.6 Switch<br>16.1 Flexible cords, not complying with 16.1 etc.<br>17.7 Coed Torque<br>18. Mechanical strength of picture tubes and protection against splashing water<br>ANNEX A Additional requirements for apparatus with protection against splashing water<br>ANNEX H Insulation winding wires for use without interleaved insulation | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| CAN/CSA-C22.2<br>No. 60065:16 | 가정용 전기기기 | Audio, Video and similar electronic apparatus - Safety requirements<br><br>[Exception]<br>6.1 Ionizing radiation<br>6.2 Laser radiation<br>6.3 Light emitting diodes (LEDs)<br>7.2 Heat resistance of insulating material<br>12.3 REMOTE CONTROL device shieldinhand<br>14.3 Capacitors and RC-units<br>14.7 Switch<br>16 External flexible cords<br>16.1 Flexible cords, not complying with 16.1 etc.)<br>17.7 Cord Torque<br>18. Mechanical strength of picture tubes and protection against the effects of implosion<br>ANNEX AA Additional requirements for apparatus with protection against splashing water<br>ANNEX H Insulated winding wires for use without interleaved insulation | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                             | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                       | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|----------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| CAN/CSA-C22.2<br>No. 60950-1A-07 | 가정용 전기기기 | Information technology equipment - Safety<br>Part1:General requirements<br><br>[Exception]<br>2.10.8.4 Abrasion resistance test<br>3.2.5.1 AC power supply cords<br>4.2.8 Cathode ray tubes<br>4.3.12 Flammable liquids<br>4.3.13.2 Ionizing radiation<br>4.3.13.3 UV<br>4.3.13.4 Human exposure to ultraviolet (UV) radiation<br>4.3.13.5 Laser<br>ANNEX A.3 Hot flaming oil test<br>ANNEX H Ionizing radiation<br>ANNEX AA Mandrel test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-1:2012                  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 1: General requirements<br>[Exception]<br>Clause 14 Transient overvoltage<br>Clause 19.11.4 Abnormal operation<br>Clause 22.32 Construction<br>Clause 24 Components<br>Annex F Capacitors<br>Annex H Switches<br>Annex J Coated printed circuit boards<br>Annex R Software evaluation<br>Annex T UV-C radiation effect on non-metallic materials                              | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                     | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                          | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|--------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-1:2012/A11:2014 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 1: General requirements<br>[Exception]<br>Clause 14 Transient overvoltage<br>Clause 19.11.4 Abnormal operation<br>Clause 22.32 Construction<br>Clause 24 Components<br>Annex F Capacitors<br>Annex H Switches<br>Annex J Coated printed circuit boards<br>Annex R Software evaluation<br>Annex T UV-C radiation effect on non-metallic materials | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-1:2012/A2:2019  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 1: General requirements<br>[Exception]<br>Clause 14 Transient overvoltage<br>Clause 19.11.4 Abnormal operation<br>Clause 22.32 Construction<br>Clause 24 Components<br>Annex F Capacitors<br>Annex H Switches<br>Annex J Coated printed circuit boards<br>Annex R Software evaluation<br>Annex T UV-C radiation effect on non-metallic materials | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                        | 제품 및 물질  | 규격명                                                                                                        | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-----------------------------|----------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-11:2010/A11:2012 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-11:Particular requirements for tumble dryers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-11:2010/A1:2015  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-11:Particular requirements for tumble dryers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                                         | 제품 및 물질  | 규격명                                                                                                                                                                                                                  | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|----------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-14:2006+A1:2008+A11:2012+A12:2016 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-14:Particular requirements for kitchen machines<br><br>[Exception]<br>25.7 Addition test                                                               | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-15:2016                           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-15:Particular requirements for appliances for heating liquids<br><br>[Exception]<br>22.103 Durability test of appliance coupler of cordless appliances | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                        | 제품 및 물질  | 규격명                                                                                                                                                                                                             | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-----------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-15:2016/A11:2018 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-15 : particular requirements for appliances for heating liquids [Exception]<br>22.103 Durability test of appliance coupler of cordless appliances | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-15:2016/A12:2021 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-15 : particular requirements for appliances for heating liquids [Exception]<br>22.103 Durability test of appliance coupler of cordless appliances | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                       | 제품 및 물질  | 규격명                                                                                                                                                                                                             | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|----------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-15:2016/A1:2021 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-15 : particular requirements for appliances for heating liquids [Exception]<br>22.103 Durability test of appliance coupler of cordless appliances | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-15:2016/A2:2021 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-15 : particular requirements for appliances for heating liquids [Exception]<br>22.103 Durability test of appliance coupler of cordless appliances | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                               | 제품 및 물질  | 규격명                                                                                                               | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-16:2003+A1:2008+A2:2012 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-16:Particular requirements for food waste disposers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-16:2003/A11:2018        | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-16:Particular requirements for food waste disposers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                               | 제품 및 물질  | 규격명                                                                                                                | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-21:2003+A1:2005+A2:2008 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-21:Particular requirements for storage water heaters | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-21:2021                 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-21:Particular requirements for storage water heaters | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                                | 제품 및 물질  | 규격명                                                                                                                           | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-21:2021/A1:2021          | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-21:Particular requirements for storage water heaters            | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-23:2003+A1:2008+A11:2010 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-23:Particular requirements for appliances for skin or hair care | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                       | 제품 및 물질  | 규격명                                                                                                                           | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|----------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-23:2003+A2:2015 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-23:Particular requirements for appliances for skin or hair care | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-29:2021+A1:2021 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers                | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                        | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-----------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-29:2021/A11:2024 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers                                                                                                                                                                                                                                                                                                                                                                    | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-2:2010/A11:2012  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-2:Particular requirements for vacuum cleaners and water-suction cleaning appliances<br><br>[Exception]<br>21.101 - Energized hose crushing resistance test<br>21.102 - Energized hose abrasion resistance test<br>21.103 - Current-carrying hose bending resistance test<br>21.104 - Current-carrying hose torsion resistance test<br>21.105 - Low-temperature condition resistance test for current-carrying hoses | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                      | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-2:2010/A1:2013 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-2:Particular requirements for vacuum cleaners and water-suction cleaning appliances<br><br>[Exception]<br>21.101 - Energized hose crushing resistance test<br>21.102 - Energized hose abrasion resistance test<br>21.103 - Current-carrying hose bending resistance test<br>21.104 - Current-carrying hose torsion resistance test<br>21.105 - Low-temperature condition resistance test for current-carrying hoses | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-31:2014        | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-31: Particular requirements for range hoods and other cooking fume extractors                                                                                                                                                                                                                                                                                                                                       | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                        | 제품 및 물질  | 규격명                                                                                                                                         | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-----------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-31:2014/A11:2023 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-31: Particular requirements for range hoods and other cooking fume extractors | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-31:2014/A1:2023  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-31: Particular requirements for range hoods and other cooking fume extractors | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                       | 제품 및 물질  | 규격명                                                                                                                                         | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|----------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-31:2014/A2:2023 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-31: Particular requirements for range hoods and other cooking fume extractors | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-32:2003+A1:2008 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-32:Particular requirements for massage appliances                             | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                               | 제품 및 물질  | 규격명                                                                                                                       | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-32:2003+A2:2015         | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-32:Particular requirements for massage appliances           | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-35:2016+A1:2019+A2:2021 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                               | 제품 및 물질  | 규격명                                                                                                         | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|------------------------------------|----------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-3:2016+A1:2020          | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-44:2002+A1:2008+A2:2012 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers       | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                                        | 제품 및 물질  | 규격명                                                                                                                            | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|---------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-47:2003+A1:2008+A11:2012+A2:2019 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-47: Particular requirements for commercial electric boiling pans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-47:2003/A12:2024                 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-47: Particular requirements for commercial electric boiling pans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                       | 제품 및 물질  | 규격명                                                                                                                           | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|----------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-4:2010/A1:2015  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-4:Particular requirements for spin extractors                   | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-50:2003+A1:2008 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-50: Particular requirements for commercial electric bains-marie | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                        | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                        | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-----------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-58:2005          | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-58:Particular requirements for commercial electric dishwashing machines<br><br>[Exception]<br>Annex BB - Ageing test for elastomeric parts<br>Annex CC - Requirements to avoid backsiphonage | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-58:2005/A11:2010 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-58:Particular requirements for commercial electric dishwashing machines<br><br>[Exception]<br>Annex BB Ageing test for elastomeric parts<br>Annex CC Requirements to avoid backsiphonag      | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                        | 제품 및 물질  | 규격명                                                                                                                                                                                                                                            | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-----------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-58:2005/A12:2016 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-58:Particular requirements for commercial electric dishwashing machines [Exception]<br>Annex BB Ageing test for elastomeric parts<br>Annex CC Requirements to avoid backsiphonag | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-58:2005/A1:2008  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-58:Particular requirements for commercial electric dishwashing machines [Exception]<br>Annex BB Ageing test for elastomeric parts<br>Annex CC Requirements to avoid backsiphonag | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                                        | 제품 및 물질  | 규격명                                                                                                                                                                                                                                            | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-58:2005/A2:2015                  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-58:Particular requirements for commercial electric dishwashing machines [Exception]<br>Annex BB Ageing test for elastomeric parts<br>Annex CC Requirements to avoid backsiphonag | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-59:2003+A1:2006+A2:2009+A11:2018 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers                                                                                                                                   | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                       | 제품 및 물질  | 규격명                                                                                                                                                                      | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|----------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-5:2015          | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-5:Particular requirements for dishwashers<br><br>[Exception]<br>Annex BB Ageing test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-5:2015/A11:2019 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-5:Particular requirements for dishwashers<br><br>[Exception]<br>Annex BB Ageing test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                       | 제품 및 물질  | 규격명                                                                                                                                                                       | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 사업장 | 현장시험 |
|----------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-5:2015/A1:2020  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-5: Particular requirements for dishwashers<br><br>[Exception]<br>Annex BB Ageing test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-64:2000+A1:2002 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-64: Particular requirements for commercial electric kitchen machines                                        | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ  | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                        | 제품 및 물질  | 규격명                                                                                                                                                                                             | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 사업장 | 현장시험 |
|-----------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-65:2003/A11:2012 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances<br><br>[Exception]<br>Clause 32 - Radiation, toxicity and similar hazards | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-65:2003/A12:2022 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances<br>[Exception]<br>Clause 32 - Radiation, toxicity and similar hazards     | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ  | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                        | 제품 및 물질  | 규격명                                                                                                                                                                                                              | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-----------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-65:2003/A2:2022  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances<br>[Exception]<br>Clause 32 - Radiation, toxicity and similar hazards                      | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-75:2004/A12:2010 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-75:Particular requirements for commercial dispensing appliances and vending machines<br>[Exception]<br>Annex AA - Aging test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                       | 제품 및 물질  | 규격명                                                                                               | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|----------------------------|----------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-80:2003+A2:2009 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-80:Particular requirements for fans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-80:2003/A1:2004 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-80:Particular requirements for fans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                                        | 제품 및 물질  | 규격명                                                                                                                                                                                              | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-85:2003+A1:2008+A11:2018+A2:2020 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers                                                                                    | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-8:2015/A11:2022                  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-8:Particular requirements for shavers, hair clippers and similar appliances [Exception] Annex BB Ageing test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                       | 제품 및 물질  | 규격명                                                                                                                                                                                              | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|----------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-8:2015/A12:2022 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-8:Particular requirements for shavers, hair clippers and similar appliances [Exception] Annex BB Ageing test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-8:2015/A1:2016  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-8:Particular requirements for shavers, hair clippers and similar appliances [Exception] Annex BB Ageing test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                                        | 제품 및 물질  | 규격명                                                                                                                                                                                              | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60335-2-8:2015/A2:2022                   | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-8:Particular requirements for shavers, hair clippers and similar appliances [Exception] Annex BB Ageing test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN 60335-2-98:2003+A1:2005+A2:2008+A11:2019 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers                                                                                        | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                                              | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                       | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013 | 가정용 전기기기 | Information technology equipment - Safety<br>Part1:General requirements<br><br>[Exception]<br>2.10.8.4 Abrasion resistance test<br>3.2.5.1 AC power supply cords<br>4.2.8 Cathode ray tubes<br>4.3.12 Flammable liquids<br>4.3.13.2 Ionizing radiation<br>4.3.13.3 UV<br>4.3.13.4 Human exposure to ultraviolet (UV) radiation<br>4.3.13.5 Laser<br>ANNEX A.3 Hot flaming oil test<br>ANNEX H Ionizing radiation<br>ANNEX AA Mandrel test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                     | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 사업장 | 현장시험 |
|--------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 62368-1:2014+A11:2017 | 가정용 전기기기 | <p>Audio/video, information and communication technology equipment - Part 1: Safety requirements</p> <p>[Exception]<br/>                     5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly mounted / Vicat test B 50 of ISO 306<br/>                     5.4.1.4, 9.2.5 Maximum operating temperatures for materials, components and systems / Three phase voltage supply systems 5.4.2, 5.4.3, 5.4.4<br/>                     Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112 5.4.2, 5.4.3, 5.4.4<br/>                     Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112 / Mandrel (figure 25 to 28), metal foil, equipment suitable for electrical strength test loads Stop watch, weight<br/>                     5.4.1.5.3 Thermal cycling test procedure<br/>                     5.6.4.1 Determination of the overcurrent protective device and circuit (Annex R) / Source with at least 1500A short circuit<br/>                     10 Radiations / Laser (including laser diodes)<br/>                     10 Radiations / Light emitting diodes (LEDs)<br/>                     10 Radiations / X-ray<br/>                     10 Radiations / Effect of UV radiation on materials (Annex C)<br/>                     10 Radiations / Human exposure to UV radiation (Annex C)<br/>                     Annex G.7 Mains supply cords / Test equipment according IEC 60227</p> | <p>Single-phase input voltage: Less than AC 600 V<br/>                     Single-phase input current: Less than 20 A<br/>                     Frequency range: (50 to 60) Hz<br/>                     Withstand voltage range: (0 ~ 10) kV<br/>                     Leakage current range: (0 ~ 10) mA<br/>                     Ground continuity voltage: Less than AC/DC 12 V<br/>                     Ground continuity current: Less than AC/DC 45 A<br/>                     Temperature: (-40 ~ 850)°C<br/>                     Relative humidity: Less than 98 % R.H.<br/>                     Insulation resistance reference voltage: Less than DC 1 000 V<br/>                     Insulation resistance measurement range: 4 000 MΩ</p> | 소재지 | N    |

한국인정기구(KOLAS)는 국제시험기관인정협력체(ILAC)의 상호인정협정(MRA) 서명기구입니다.

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|---------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
|                     |          | Annex G.9 IC current limiters<br>Annex G.13.6.2 Test method and compliance criteria<br>Annex G.13.6.2 Abrasion resistance test<br>Annex G.15 Hydrostatic pressure<br>Annex G.15 Tubing and fittings compatibility test<br>Annex J Insulated winding wires for use without interleaved insulation<br>Annex M.8.2 Protection against internal ignition from external spark sources - Spark Test<br>Annex S Tests for resistance to heat and fire / Distillate fuel oil as described in Annex S.3.2<br>Annex U Mechanical strength of CRTs and protection against the effects of implosion |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |
| EN IEC 60335-1:2023 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 1 : general requirements<br>[Exception]<br>Clause 14 Transient overvoltage<br>Clause 19.11.4 Abnormal operation<br>Clause 22.32 Construction<br>Clause 24 Components<br>Clause 32.2 Radiation, toxicity and similar hazards<br>Annex F Capacitors<br>Annex H Switches<br>Annex J Coated printed circuit boards<br>Annex R Software evaluation<br>Annex T UV-C radiation effect on non-metallic materials<br>Annex U Evaluation for remote communication through public networks                                             | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                         | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 60335-1:2023/A11:2023 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 1 : general requirements<br>[Exception]<br>Clause 14 Transient overvoltage<br>Clause 19.11.4 Abnormal operation<br>Clause 22.32 Construction<br>Clause 24 Components<br>Clause 32.2 Radiation, toxicity and similar hazards<br>Annex F Capacitors<br>Annex H Switches<br>Annex J Coated printed circuit boards<br>Annex R Software evaluation<br>Annex T UV-C radiation effect on non-metallic materials<br>Annex U Evaluation for remote communication through public networks | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN IEC 60335-2-11:2022       | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-11:Particular requirements for tumble dryers                                                                                                                                                                                                                                                                                                                                                                                                                                  | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                            | 제품 및 물질  | 규격명                                                                                                                                            | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 60335-2-11:2022/A11:2022 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-11:Particular requirements for tumble dryers                                     | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN IEC 60335-2-14:2023          | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-14 : Particular requirements for kitchen machines [Exception] 25.7 Addition test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                            | 제품 및 물질  | 규격명                                                                                                                                            | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 60335-2-14:2023/A11:2023 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-14 : Particular requirements for kitchen machines [Exception] 25.7 Addition test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN IEC 60335-2-14:2023/A1:2023  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-14 : Particular requirements for kitchen machines [Exception] 25.7 Addition test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                           | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|--------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 60335-2-2:2023          | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception]<br>21.101 - Energized hose crushing resistance test<br>21.102 - Energized hose abrasion resistance test<br>21.103 - Currentcarrying hose bending resistance test<br>21.104 - Currentcarrying hose torsion resistance test<br>21.105 - Lowtemperature condition resistance test for current-carrying hose test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN IEC 60335-2-2:2023/A11:2023 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception]<br>21.101 - Energized hose crushing resistance test<br>21.102 - Energized hose abrasion resistance test<br>21.103 - Currentcarrying hose bending resistance test<br>21.104 - Currentcarrying hose torsion resistance test<br>21.105 - Lowtemperature condition resistance test for current-carrying hose test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                   | 제품 및 물질  | 규격명                                                                                                                                                   | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 60335-2-32:2021 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-32:Particular requirements for massage appliances                                       | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN IEC 60335-2-37:2024 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-37: Particular requirements for commercial electric doughnut fryers and deep fat fryers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                            | 제품 및 물질  | 규격명                                                                                                                                                   | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|---------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 60335-2-37:2024/A11:2024 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-37: Particular requirements for commercial electric doughnut fryers and deep fat fryers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN IEC 60335-2-39:2024          | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans          | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                            | 제품 및 물질  | 규격명                                                                                                                                          | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|---------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 60335-2-39:2024/A11:2024 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN IEC 60335-2-39:2024/A1:2024  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                            | 제품 및 물질  | 규격명                                                                                                                          | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 60335-2-43:2020+A11:2020 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-43: Particular requirements for clothes dryers and towel rails | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN IEC 60335-2-4:2023           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-4 : particular requirements for spin extractors                | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                           | 제품 및 물질  | 규격명                                                                                                                                                                                                            | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|--------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 60335-2-4:2023/A11:2023 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-4 : particular requirements for spin extractors                                                                                                  | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN IEC 60335-2-75:2023         | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines [Exception]<br>Annex AA - Aging test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                            | 제품 및 물질  | 규격명                                                                                                                                                                                                         | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|---------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 60335-2-75:2023/A11:2023 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines [Exception] Annex AA - Aging test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN IEC 60335-2-75:2023/A1:2023  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines [Exception] Annex AA - Aging test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                           | 제품 및 물질  | 규격명                                                                                                                                                                                                         | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|--------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 60335-2-75:2023/A2:2023 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines [Exception] Annex AA - Aging test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| EN IEC 60335-2-80:2024         | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-80 : particular requirements for fans                                                                                                         | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                            | 제품 및 물질  | 규격명                                                                                                 | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------------------|----------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 60335-2-80:2024/A11:2024 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-80 : particular requirements for fans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|---------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 62368-1:2020 | 가정용 전기기기 | Audio/video, information and communication technology equipment - Part 1: Safety requirements<br>[제외항목]<br>5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly mounted / Vicat test B 50 of ISO 306<br>5.4.1.4, 9.2.5 Maximum operating temperatures for materials, components and systems / Three phase voltage supply systems<br>5.4.2, 5.4.3, 5.4.4 Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112<br>5.4.2, 5.4.3, 5.4.4, Annex X Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112 / Mandrel (figure 25 to 28), metal foil, equipment suitable for electrical strength test loads Stop watch, weight<br>5.4.1.5.3 Thermal cycling test procedure<br>5.6.4.1 Determination of the overcurrent protective device and circuit (Annex R) / Source with at least 1500A short circuit<br>10 Radiation / Laser (including laser diodes)<br>10 Radiation / Light emitting diodes (LEDs)<br>10 Radiation / Image Projector<br>10 Radiation / X-ray<br>10 Radiation / Effect of UV radiation on materials (Annex C)<br>10 Radiation / Human exposure to UV radiation (Annex C)<br>Annex C UV radiation / Carbon-arc light- | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4000 MΩ | 소재지 | N    |

한국인정기구(KOLAS)는 국제시험기관인정협력체(ILAC)의 상호인정협정(MRA) 서명기구입니다.

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호 | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 시험범위 | 사업장 | 현장시험 |
|------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|
|      |         | exposure test<br>Annex C UV radiation / Xenon-arc light-exposure test<br>Annex C UV radiation /Tensile strength, ISO 527<br>Annex C UV radiation / Flexural strength, ISO 178<br>Annex C UV radiation / Charpy impact, ISO 179<br>Annex C UV radiation / Izod impact, ISO 180<br>Annex C UV radiation / Tensile impact, ISO 8256<br>Annex G.5.3.4 / Test for FIW<br>Annex G.7 Mains supply cords / Test equipment according IEC 60227<br>Annex G.9 / IC current limiters<br>Annex G.13.6.2 / Test method and compliance criteria<br>Annex G.13.6.2 / Abrasion resistance test<br>Annex G.15 / Hydrostatic pressure<br>Annex G.15 / Tubing and fittings compatibility test<br>Annex J / Insulated winding wires for use without interleaved insulation<br>Annex M.7 / Concentration of hydrogen gas<br>Annex M.8.2 / Protection against internal ignition from external spark sources - Spark Test<br>Annex R / Limited Short-circuit test<br>Annex S Tests for resistance to heat and fire / Distillate fuel oil as described in annex S.3.2<br>Annex U / Mechanical strength of CRTs and protection against the effects of implosion<br>Annex Y.2 (Annex C) / Ultraviolet light conditioning test |      |     |      |

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# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호 | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                                                       | 시험범위 | 사업장 | 현장<br>시험 |
|------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|----------|
|      |         | Annex Y 3 / Resistance to corrosion, water borne contaminants<br>Annex Y.3.3 / Water-sulphur dioxide test<br>Annex Y.4.3 / Tensile strength and elongation tests<br>Annex Y.4.4 / Compression test<br>Annex Y.4.5 / Oil resistance<br>Annex Y.5 / Protection from moisture<br>Annex Y.5.3 / Water spray test<br>Annex Y.5.5 / Protection from excessive dust<br>Annex Y.6.2 / Impact test |      |     |          |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                         | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 사업장 | 현장시험 |
|------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 62368-1:2020+A11:2020 | 가정용 전기기기 | <p>Audio/video, information and communication technology equipment - Part 1: Safety requirements</p> <p>[Exception]<br/>                     5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly mounted / Vicat test B 50 of ISO 306<br/>                     5.4.1.4, 9.2.5 Maximum operating temperatures for materials, components and systems / Three phase voltage supply systems 5.4.2, 5.4.3, 5.4.4<br/>                     Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112 5.4.2, 5.4.3, 5.4.4, Annex X Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112 / Mandrel (figure 25 to 28), metal foil, equipment suitable for electrical strength test loads Stop watch, weight<br/>                     5.4.1.5.3 Thermal cycling test procedure<br/>                     5.6.4.1 Determination of the overcurrent protective device and circuit (Annex R) / Source with at least 1500A short circuit<br/>                     10 Radiation / Laser (including laser diodes)<br/>                     10 Radiation / Light emitting diodes (LEDs)<br/>                     10 Radiation / Image Projector<br/>                     10 Radiation / X-ray<br/>                     10 Radiation / Effect of UV radiation on materials (Annex C)<br/>                     10 Radiation / Human exposure to UV radiation (Annex C)<br/>                     Annex C UV radiation /</p> | <p>Single-phase input voltage: Less than AC 600 V<br/>                     Single-phase input current: Less than 20 A<br/>                     Frequency range: (50 to 60) Hz<br/>                     Withstand voltage range: (0 ~ 10) kV<br/>                     Leakage current range: (0 ~ 10) mA<br/>                     Ground continuity voltage: Less than AC/DC 12 V<br/>                     Ground continuity current: Less than AC/DC 45 A<br/>                     Temperature: (-40 ~ 850)°C<br/>                     Relative humidity: Less than 98 % R.H.<br/>                     Insulation resistance reference voltage: Less than DC 1 000 V<br/>                     Insulation resistance measurement range: 4 000 MΩ</p> | 소재지 | N    |

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# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호 | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 시험범위 | 사업장 | 현장시험 |
|------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|
|      |         | Carbon-arc light-exposure test<br>Annex C UV radiation / Xenon-arc light-exposure test<br>Annex C UV radiation / Tensile strength, ISO 527<br>Annex C UV radiation / Flexural strength, ISO 178<br>Annex C UV radiation / Charpy impact, ISO 179<br>Annex C UV radiation / Izod impact, ISO 180<br>Annex C UV radiation / Tensile impact, ISO 8256<br>Annex G.5.3.4 / Test for FIW<br>Annex G.7 Mains supply cords / Test equipment according IEC 60227<br>Annex G.9 / IC current limiters<br>Annex G.13.6.2 / Test method and compliance criteria<br>Annex G.13.6.2 / Abrasion resistance test<br>Annex G.15 / Hydrostatic pressure<br>Annex G.15 / Tubing and fittings compatibility test<br>Annex J / Insulated winding wires for use without interleaved insulation<br>Annex M.7 / Concentration of hydrogen gas<br>Annex M.8.2 / Protection against internal ignition from external spark sources - Spark Test<br>Annex R / Limited Short-circuit test<br>Annex S Tests for resistance to heat and fire / Distillate fuel oil as described in annex S.3.2<br>Annex U / Mechanical strength of CRTs and protection against the effects of implosion<br>Annex Y.2 (Annex C) / Ultraviolet light |      |     |      |

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# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호 | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                              | 시험범위 | 사업장 | 현장<br>시험 |
|------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|----------|
|      |         | conditioning test<br>Annex Y 3 / Resistance<br>to corrosion, water<br>borne contaminants<br>Annex Y.3.3 / Water-<br>sulphur dioxide test<br>Annex Y.4.3 / Tensile<br>strength and elongation<br>tests<br>Annex Y.4.4 /<br>Compression test<br>Annex Y.4.5 / Oil<br>resistance<br>Annex Y.5 / Protection<br>from moisture<br>Annex Y.5.3 / Water<br>spray test<br>Annex Y.5.5 / Protection<br>from excessive dust<br>Annex Y.6.2 / Impact<br>test |      |     |          |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                         | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 62368-1:2024+A11:2024 | 가정용 전기기기 | Audio/video, information and communication technology equipment - Part 1: Safety requirements<br>[제외항목]<br>5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly mounted / Vicat test B 50 of ISO 306<br>5.4.1.4, 9.2.5 Maximum operating temperatures for materials, components and systems / Three phase voltage supply systems<br>5.4.2, 5.4.3, 5.4.4 Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112<br>5.4.2, 5.4.3, 5.4.4, Annex X Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112 / Mandrel (figure 25 to 28), metal foil, equipment suitable for electrical strength test loads Stop watch, weight<br>5.4.1.5.3 Thermal cycling test procedure<br>5.6.4.1 Determination of the overcurrent protective device and circuit (Annex R) / Source with at least 1500A short circuit<br>10 Radiation / Laser (including laser diodes)<br>10 Radiation / Light emitting diodes (LEDs)<br>10 Radiation / Image Projector<br>10 Radiation / X-ray<br>10 Radiation / Effect of UV radiation on materials (Annex C)<br>10 Radiation / Human exposure to UV radiation (Annex C)<br>Annex C UV radiation / Carbon-arc light- | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4000 MΩ | 소재지 | N    |

한국인정기구(KOLAS)는 국제시험기관인정협력체(ILAC)의 상호인정협정(MRA) 서명기구입니다.

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제 KT197호

| 규격번호 | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 시험범위 | 사업장 | 현장시험 |
|------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|
|      |         | exposure test<br>Annex C UV radiation / Xenon-arc light-exposure test<br>Annex C UV radiation /Tensile strength, ISO 527<br>Annex C UV radiation / Flexural strength, ISO 178<br>Annex C UV radiation / Charpy impact, ISO 179<br>Annex C UV radiation / Izod impact, ISO 180<br>Annex C UV radiation / Tensile impact, ISO 8256<br>Annex G.5.3.4 / Test for FIW<br>Annex G.7 Mains supply cords / Test equipment according IEC 60227<br>Annex G.9 / IC current limiters<br>Annex G.13.6.2 / Test method and compliance criteria<br>Annex G.13.6.2 / Abrasion resistance test<br>Annex G.15 / Hydrostatic pressure<br>Annex G.15 / Tubing and fittings compatibility test<br>Annex J / Insulated winding wires for use without interleaved insulation<br>Annex M.7 / Concentration of hydrogen gas<br>Annex M.8.2 / Protection against internal ignition from external spark sources - Spark Test<br>Annex R / Limited Short-circuit test<br>Annex S Tests for resistance to heat and fire / Distillate fuel oil as described in annex S.3.2<br>Annex U / Mechanical strength of CRTs and protection against the effects of implosion<br>Annex Y.2 (Annex C) / Ultraviolet light conditioning test |      |     |      |

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# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                              | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 사업장 | 현장시험 |
|-----------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
|                                   |          | Annex Y 3 / Resistance to corrosion, water borne contaminants<br>Annex Y.3.3 / Water-sulphur dioxide test<br>Annex Y.4.3 / Tensile strength and elongation tests<br>Annex Y.4.4 / Compression test<br>Annex Y.4.5 / Oil resistance<br>Annex Y.5 / Protection from moisture<br>Annex Y.5.3 / Water spray test<br>Annex Y.5.5 / Protection from excessive dust<br>Annex Y.6.2 / Impact test                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |      |
| IEC<br>60065:2001+A1:2005+A2:2010 | 가정용 전기기기 | Audio, Video and similar electronic apparatus - Safety requirements<br><br>[Exception]<br>6.1 Ionizing radiation<br>6.2 Laser radiation<br>7.2 Softening Temperature<br>12.3 REMOTE CONTROL devices held in hand<br>14.2 Capacitor<br>14.6 Switch<br>16.1 Flexible cords, not complying with 16.1 etc.<br>17.7 Cord Torque 18. Mechanical strength of picture tubes and protection against splashing water<br>ANNEX A Additional requirements for apparatus with protection against splashing water<br>ANNEX H Insulation winding wires for use without interleaved insulation | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 5) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 200)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ<br>Vibration frequency range: (10 ~ 55) Hz<br>Amplitude: Less than 0.35 mm | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호           | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|----------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60065:2014 | 가정용 전기기기 | <p>Audio, video and similar electronic apparatus - Safety requirements</p> <p>[Exception]<br/>         6.1 Ionizing radiation<br/>         6.2 Laserradiation<br/>         6.3 Light emitting diodes (LEDs)<br/>         7.2 Heat resistance of insulating material<br/>         12.3 REMOTE CONTROL devices held in hand<br/>         14.3 Capacitors and RC-units<br/>         14.7 Switch 16 External flexible cords<br/>         16.1 Flexible cords, not complying with 16.1 etc.)<br/>         17.7 Cord Torque<br/>         18. Mechanical strength of picture tubes and protection against the effects of implosion<br/>         ANNEX AA Additional requirements for apparatus with protection against splashing water<br/>         ANNEX H Insulated winding wires for use without interleaved insulation</p> | <p>Single-phase input voltage: Less than AC 600 V<br/>         Single-phase input current: Less than 20 A<br/>         Frequency range: (50 to 60) Hz<br/>         Withstand voltage range: (0 ~ 10) kV<br/>         Leakage current range: (0 ~ 10) mA<br/>         Ground continuity voltage: Less than AC/DC 12 V<br/>         Ground continuity current: Less than AC/DC 45 A<br/>         Temperature: (-40 ~ 200)°C<br/>         Relative humidity: Less than 98 % R.H.<br/>         Insulation resistance measurement range: 4 000 MΩ</p> | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                       | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                          | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|----------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-1:2010           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 1: General requirements<br>[Exception]<br>Clause 14 Transient overvoltage<br>Clause 19.11.4 Abnormal operation<br>Clause 22.32 Construction<br>Clause 24 Components<br>Annex F Capacitors<br>Annex H Switches<br>Annex J Coated printed circuit boards<br>Annex R Software evaluation<br>Annex T UV-C radiation effect on non-metallic materials | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-1:2010/AMD1:2013 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 1: General requirements<br>[Exception]<br>Clause 14 Transient overvoltage<br>Clause 19.11.4 Abnormal operation<br>Clause 22.32 Construction<br>Clause 24 Components<br>Annex F Capacitors<br>Annex H Switches<br>Annex J Coated printed circuit boards<br>Annex R Software evaluation<br>Annex T UV-C radiation effect on non-metallic materials | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                       | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|----------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-1:2010/AMD2:2016 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 1: General requirements<br>[Exception]<br>Clause 14 Transient overvoltage<br>Clause 19.11.4 Abnormal operation<br>Clause 22.32 Construction<br>Clause 24 Components<br>Annex F Capacitors<br>Annex H Switches<br>Annex J Coated printed circuit boards<br>Annex R Software evaluation<br>Annex T UV-C radiation effect on non-metallic materials                                                                                                                               | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-1:2020           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 1: General requirements<br>[Exception]<br>Clause 14 Transient overvoltage<br>Clause 19.11.4 Abnormal operation<br>Clause 22.32 Construction<br>Clause 24 Components<br>Clause 32.2 Radiation, toxicity and similar hazards<br>Annex F Capacitors<br>Annex H Switches<br>Annex J Coated printed circuit boards<br>Annex R Software evaluation<br>Annex T UV-C radiation effect on non-metallic materials<br>Annex U Evaluation for remote communication through public networks | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                        | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-11:2008           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-11:Particular requirements for tumble dryers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-11:2008/AMD1:2012 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-11:Particular requirements for tumble dryers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                        | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-11:2008/AMD2:2015 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-11:Particular requirements for tumble dryers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-11:2019           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-11:Particular requirements for tumble dryers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질  | 규격명                                                                                                                                                     | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 사업장 | 현장시험 |
|---------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-11:2024 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-11: Particular requirements for tumble dryers                                             | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ  | 소재지 | N    |
| IEC 60335-2-14:2006 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines<br><br>[Exception]<br>25.7 Addition test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                                     | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-14:2006/AMD1:2008 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines<br><br>[Exception]<br>25.7 Addition test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-14:2006/AMD2:2012 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines<br><br>[Exception]<br>25.7 Addition test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                                    | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-14:2016           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-14:Particular requirements for kitchen machines<br><br>[Exception]<br>25.7 Addition test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-14:2016/AMD1:2019 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-14:Particular requirements for kitchen machines<br><br>[Exception]<br>25.7 Addition test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질  | 규격명                                                                                                                                                                                                              | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-14:2025 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-14 : Particular requirements for kitchen machines [Exception] 25.7 Addition test                                                                   | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-15:2012 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-15:Particular requirements for appliances for heating liquids<br>[Exception]<br>22.103 Durability test of appliance coupler of cordless appliances | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                                                                                                  | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-15:2012/AMD1:2016 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-15:Particular requirements for appliances for heating liquids<br><br>[Exception]<br>22.103 Durability test of appliance coupler of cordless appliances | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-15:2012/AMD2:2018 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-15:Particular requirements for appliances for heating liquids<br><br>[Exception]<br>22.103 Durability test of appliance coupler of cordless appliances | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                               | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-16:2002           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-16:Particular requirements for food waste disposers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-16:2002/AMD1:2008 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-16:Particular requirements for food waste disposers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                               | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-16:2002/AMD2:2011 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-16:Particular requirements for food waste disposers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-16:2022           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-16:Particular requirements for food waste disposers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-21:2012           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-21:Particular requirements for storage water heaters | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-21:2012/AMD1:2018 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-21:Particular requirements for storage water heaters | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질  | 규격명                                                                                                                           | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------|----------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-21:2022 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-21:Particular requirements for storage water heaters            | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-23:2016 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-23:Particular requirements for appliances for skin or hair care | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                           | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-23:2016/AMD1:2019 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-23:Particular requirements for appliances for skin or hair care | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-29:2016           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers                | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 사업장 | 현장시험 |
|-------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-29:2016/AMD1:2019 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers                                                                                                                                                                                                                                                                                                                                                                     | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ  | 소재지 | N    |
| IEC 60335-2-2:2009            | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances<br><br>[Exception]<br>21.101 - Energized hose crushing resistance test<br>21.102 - Energized hose abrasion resistance test<br>21.103 - Current-carrying hose bending resistance test<br>21.104 - Current-carrying hose torsion resistance test<br>21.105 - Low-temperature condition resistance test for current-carrying hoses | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                         | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-2:2009/AMD1:2012 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-2:Particular requirements for vacuum cleaners and water-suction cleaning appliances<br><br>[Exception]<br>21.101 - Energized hose crushing resistance test<br>21.102 - Energized hose abrasion resistance test<br>21.103 - Current-carrying hose bending resistance test<br>21.104 - Current-carrying hose torsion resistance test<br>21.105 - Low-temperature condition resistance test for current-carrying hose test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-2:2009/AMD2:2016 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-2:Particular requirements for vacuum cleaners and water-suction cleaning appliances<br><br>[Exception]<br>21.101 - Energized hose crushing resistance test<br>21.102 - Energized hose abrasion resistance test<br>21.103 - Current-carrying hose bending resistance test<br>21.104 - Current-carrying hose torsion resistance test<br>21.105 - Low-temperature condition resistance test for current-carrying hose test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-2:2019  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception]<br>21.101 - Energized hose crushing resistance test<br>21.102 - Energized hose abrasion resistance test<br>21.103 - Currentcarrying hose bending resistance test<br>21.104 - Currentcarrying hose torsion resistance test<br>21.105 - Lowtemperature condition resistance test for current-carrying hose test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-31:2012 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-31: Particular requirements for range hoods and other cooking fume extractors                                                                                                                                                                                                                                                                                                                                  | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                         | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-31:2012/AMD1:2016 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-31: Particular requirements for range hoods and other cooking fume extractors | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-31:2012/AMD2:2018 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-31: Particular requirements for range hoods and other cooking fume extractors | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질  | 규격명                                                                                                                                         | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 사업장 | 현장시험 |
|---------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-31:2024 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-31: Particular requirements for range hoods and other cooking fume extractors | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ  | 소재지 | N    |
| IEC 60335-2-32:2002 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-32: Particular requirements for massage appliances                            | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                             | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-32:2002/AMD1:2008 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-32:Particular requirements for massage appliances | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-32:2002/AMD2:2013 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-32:Particular requirements for massage appliances | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질  | 규격명                                                                                                             | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------|----------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-32:2019 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-32:Particular requirements for massage appliances | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-32:2024 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-32:Particular requirements for massage appliances | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                       | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-35:2012           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-35:2012/AMD1:2016 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                                   | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-35:2012/AMD2:2020 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters                             | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-37:2002           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-37: Particular requirements for commercial electric doughnut fryers and deep fat fryers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질  | 규격명                                                                                                                                                   | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|---------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-37:2017 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-37: Particular requirements for commercial electric doughnut fryers and deep fat fryers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-37:2021 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-37: Particular requirements for commercial electric doughnut fryers and deep fat fryers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                                   | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-37:2021/AMD1:2025 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-37: Particular requirements for commercial electric doughnut fryers and deep fat fryers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-39:2012           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans          | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                          | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-39:2012/AMD1:2017 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-39:2021           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                          | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-39:2021/AMD1:2025 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-3:2002            | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons                                  | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                         | 제품 및 물질  | 규격명                                                                                                         | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|------------------------------|----------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-3:2002/AMD1:2004 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-3:2002/AMD2:2008 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                         | 제품 및 물질  | 규격명                                                                                                         | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|------------------------------|----------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-3:2012           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-3:2012/AMD1:2015 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질  | 규격명                                                                                                                          | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------|----------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-3:2022  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons                  | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-43:2017 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-43: Particular requirements for clothes dryers and towel rails | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질  | 규격명                                                                                                                          | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|---------------------|----------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-43:2024 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-43: Particular requirements for clothes dryers and towel rails | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-44:2002 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers                        | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                   | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-44:2002/AMD1:2008 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-44:2002/AMD2:2011 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                   | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-44:2021           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-44:2021/AMD1:2025 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                            | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-47:2002           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-47: Particular requirements for commercial electric boiling pans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-47:2002/AMD1:2008 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-47: Particular requirements for commercial electric boiling pans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                            | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-47:2002/AMD2:2017 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-47: Particular requirements for commercial electric boiling pans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-47:2021           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-47: Particular requirements for commercial electric boiling pans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                            | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 사업장 | 현장시험 |
|-------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-47:2021/AMD1:2025 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-47: Particular requirements for commercial electric boiling pans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ  | 소재지 | N    |
| IEC 60335-2-4:2008            | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors                   | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                         | 제품 및 물질  | 규격명                                                                                                         | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|------------------------------|----------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-4:2008/AMD1:2012 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-4:Particular requirements for spin extractors | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-4:2008/AMD2:2017 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-4:Particular requirements for spin extractors | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호               | 제품 및 물질  | 규격명                                                                                                          | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|--------------------|----------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-4:2021 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-4:Particular requirements for spin extractors  | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-4:2023 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                           | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-50:2002           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-50: Particular requirements for commercial electric bains-marie | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-50:2002/AMD1:2007 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-50: Particular requirements for commercial electric bains-marie | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                           | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-50:2002/AMD2:2017 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-50: Particular requirements for commercial electric bains-marie | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-50:2021           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-50: Particular requirements for commercial electric bains-marie | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                    | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-58:2002           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-58: Particular requirements for commercial electric dishwashing machines | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-58:2002/AMD1:2008 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-58: Particular requirements for commercial electric dishwashing machines | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                        | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-58:2002/AMD2:2015 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-58:Particular requirements for commercial electric dishwashing machines<br><br>[Exception]<br>Annex BB - Ageing test for elastomeric parts<br>Annex CC - Requirements to avoid backsiphonage | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-58:2017           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-58:Particular requirements for commercial electric dishwashing machines<br><br>[Exception]<br>Annex BB - Ageing test for elastomeric parts<br>Annex CC - Requirements to avoid backsiphonage | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                          | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-59:2002           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-59:2002/AMD1:2006 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                          | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-59:2002/AMD2:2009 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-59:2021           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-64:2002           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-64: Particular requirements for commercial electric kitchen machines | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-64:2002/AMD1:2007 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-64: Particular requirements for commercial electric kitchen machines | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-64:2021           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-64: Particular requirements for commercial electric kitchen machines | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-64:2021/AMD1:2024 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-64: Particular requirements for commercial electric kitchen machines | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                                                                            | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-65:2002           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-65:Particular requirements for air-cleaning appliances<br><br>[Exception]<br>Clause 32 - Radiation, toxicity and similar hazards | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-65:2002/AMD1:2008 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-65:Particular requirements for air-cleaning appliances<br><br>[Exception]<br>Clause 32 - Radiation, toxicity and similar hazards | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                                                                             | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 사업장 | 현장시험 |
|-------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-65:2002/AMD2:2015 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances<br><br>[Exception]<br>Clause 32 - Radiation, toxicity and similar hazards | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-65:2023           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances<br>[Exception]<br>Clause 32 - Radiation, toxicity and similar hazards     | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ  | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                                                                                                  | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-75:2012           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-75:Particular requirements for commercial dispensing appliances and vending machines<br><br>[Exception]<br>Annex AA - Aging test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-75:2012/AMD1:2015 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-75:Particular requirements for commercial dispensing appliances and vending machines<br><br>[Exception]<br>Annex AA - Aging test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                                                                                                                                   | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 사업장 | 현장시험 |
|-------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-75:2012/AMD2:2018 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines<br><br>[Exception]<br>Annex AA - Aging test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-75:2024           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines<br>[Exception]<br>Annex AA - Aging test for elastomeric parts     | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ  | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                               | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-80:2002           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-80:Particular requirements for fans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-80:2002/AMD1:2004 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-80:Particular requirements for fans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                               | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------|----------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-80:2002/AMD2:2008 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-80:Particular requirements for fans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-80:2015           | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-80:Particular requirements for fans | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질  | 규격명                                                                                                           | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------|----------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-80:2024 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans            | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-85:2002 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                           | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-85:2002/AMD1:2008 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-85:2002/AMD2:2017 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질  | 규격명                                                                                                                                                                                              | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-85:2022 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers                                                                                    | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-8:2012  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-8:Particular requirements for shavers, hair clippers and similar appliances [Exception] Annex BB Ageing test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                         | 제품 및 물질  | 규격명                                                                                                                                                                                              | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-8:2012/AMD1:2015 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-8:Particular requirements for shavers, hair clippers and similar appliances [Exception] Annex BB Ageing test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-8:2012/AMD2:2018 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-8:Particular requirements for shavers, hair clippers and similar appliances [Exception] Annex BB Ageing test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질  | 규격명                                                                                                                                                                                              | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-8:2022  | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-8:Particular requirements for shavers, hair clippers and similar appliances [Exception] Annex BB Ageing test for elastomeric parts | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-98:2002 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers                                                                                        | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질  | 규격명                                                                                                       | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|-------------------------------|----------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-98:2002/AMD1:2004 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60335-2-98:2002/AMD2:2008 | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                             | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                     | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|----------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60335-2-98:2023              | 가정용 전기기기 | Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers                                                                                                                                                                                                                                                                                                                               | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 ~ 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |
| IEC 60950-1:2005+A1:2009+A2:2013 | 가정용 전기기기 | Information technology equipment - Safety Part 1:General requirements<br><br>[Exception]<br>2.10.8.4 Abrasion resistance test<br>3.2.5.1 AC power supply cords<br>4.2.8 Cathode ray tubes<br>4.3.12 Flammable liquids<br>4.3.13.2 Ionizing radiation<br>4.3.13.3 UV<br>4.3.13.4 Human exposure to ultraviolet (UV) radiation<br>4.3.13.5 Laser<br>ANNEX A.3 Hot flaming oil test<br>ANNEX H Ionizing radiation<br>ANNEX AA Mandrel test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호             | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 사업장 | 현장시험 |
|------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 62368-1:2014 | 가정용 전기기기 | <p>Audio/video, information and communication technology equipment - Part 1: Safety requirements</p> <p>[Exception]<br/>                     5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly mounted / Vicat test B 50 of ISO 306<br/>                     5.4.1.4, 9.2.5 Maximum operating temperatures for materials, components and systems / Three phase voltage supply systems 5.4.2, 5.4.3, 5.4.4<br/>                     Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112 5.4.2, 5.4.3, 5.4.4<br/>                     Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112 / Mandrel (figure 25 to 28), metal foil, equipment suitable for electrical strength test loads Stop watch, weight<br/>                     5.4.1.5.3 Thermal cycling test procedure<br/>                     5.6.4.1 Determination of the overcurrent protective device and circuit (Annex R) / Source with at least 1500A short circuit<br/>                     10 Radiations / Laser (including laser diodes)<br/>                     10 Radiations / Light emitting diodes (LEDs)<br/>                     10 Radiations / X-ray<br/>                     10 Radiations / Effect of UV radiation on materials (Annex C)<br/>                     10 Radiations / Human exposure to UV radiation (Annex C)<br/>                     Annex G.7 Mains supply cords / Test equipment according IEC 60227</p> | <p>Single-phase input voltage: Less than AC 600 V<br/>                     Single-phase input current: Less than 20 A<br/>                     Frequency range: (50 to 60) Hz<br/>                     Withstand voltage range: (0 ~ 10) kV<br/>                     Leakage current range: (0 ~ 10) mA<br/>                     Ground continuity voltage: Less than AC/DC 12 V<br/>                     Ground continuity current: Less than AC/DC 45 A<br/>                     Temperature: (-40 ~ 850)°C<br/>                     Relative humidity: Less than 98 % R.H.<br/>                     Insulation resistance reference voltage: Less than DC 1 000 V<br/>                     Insulation resistance measurement range: 4 000 MΩ</p> | 소재지 | N    |

한국인정기구(KOLAS)는 국제시험기관인정협력체(ILAC)의 상호인정협정(MRA) 서명기구입니다.

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호 | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 시험범위 | 사업장 | 현장시험 |
|------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|
|      |         | Annex G.9 IC current limiters<br>Annex G.13.6.2 Test method and compliance criteria<br>Annex G.13.6.2 Abrasion resistance test<br>Annex G.15 Hydrostatic pressure<br>Annex G.15 Tubing and fittings compatibility test<br>Annex J Insulated winding wires for use without interleaved insulation<br>Annex M.8.2 Protection against internal ignition from external spark sources - Spark Test<br>Annex S Tests for resistance to heat and fire / Distillate fuel oil as described in Annex S.3.2<br>Annex U Mechanical strength of CRTs and protection against the effects of implosion |      |     |      |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호             | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 사업장 | 현장시험 |
|------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 62368-1:2018 | 가정용 전기기기 | <p>Audio/video, information and communication technology equipment - Part 1: Safety requirements</p> <p>[Exception]<br/>                     5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly mounted / Vicat test B 50 of ISO 306<br/>                     5.4.1.4, 9.2.5 Maximum operating temperatures for materials, components and systems / Three phase voltage supply systems 5.4.2, 5.4.3, 5.4.4<br/>                     Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112 5.4.2, 5.4.3, 5.4.4, Annex X Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112 / Mandrel (figure 25 to 28), metal foil, equipment suitable for electrical strength test loads Stop watch, weight<br/>                     5.4.1.5.3 Thermal cycling test procedure<br/>                     5.6.4.1 Determination of the overcurrent protective device and circuit (Annex R) / Source with at least 1500A short circuit<br/>                     10 Radiation / Laser (including laser diodes)<br/>                     10 Radiation / Light emitting diodes (LEDs)<br/>                     10 Radiation / Image Projector<br/>                     10 Radiation / X-ray<br/>                     10 Radiation / Effect of UV radiation on materials (Annex C)<br/>                     10 Radiation / Human exposure to UV radiation (Annex C)<br/>                     Annex C UV radiation /</p> | <p>Single-phase input voltage: Less than AC 600 V<br/>                     Single-phase input current: Less than 20 A<br/>                     Frequency range: (50 to 60) Hz<br/>                     Withstand voltage range: (0 ~ 10) kV<br/>                     Leakage current range: (0 ~ 10) mA<br/>                     Ground continuity voltage: Less than AC/DC 12 V<br/>                     Ground continuity current: Less than AC/DC 45 A<br/>                     Temperature: (-40 ~ 850)°C<br/>                     Relative humidity: Less than 98 % R.H.<br/>                     Insulation resistance reference voltage: Less than DC 1 000 V<br/>                     Insulation resistance measurement range: 4 000 MΩ</p> | 소재지 | N    |

한국인정기구(KOLAS)는 국제시험기관인정협력체(ILAC)의 상호인정협정(MRA) 서명기구입니다.

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호 | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 시험범위 | 사업장 | 현장시험 |
|------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|
|      |         | Carbon-arc light-exposure test<br>Annex C UV radiation / Xenon-arc light-exposure test<br>Annex C UV radiation /Tensile strength, ISO 527<br>Annex C UV radiation / Flexural strength, ISO 178<br>Annex C UV radiation / Charpy impact, ISO 179<br>Annex C UV radiation / Izod impact, ISO 180<br>Annex C UV radiation / Tensile impact, ISO 8256<br>Annex G.5.3.4 / Test for FIW<br>Annex G.7 Mains supply cords / Test equipment according IEC 60227<br>Annex G.9 / IC current limiters<br>Annex G.13.6.2 / Test method and compliance criteria<br>Annex G.13.6.2 / Abrasion resistance test<br>Annex G.15 / Hydrostatic pressure<br>Annex G.15 / Tubing and fittings compatibility test<br>Annex J / Insulated winding wires for use without interleaved insulation<br>Annex M.7 / Concentration of hydrogen gas<br>Annex M.8.2 / Protection against internal ignition from external spark sources - Spark Test<br>Annex R / Limited Short-circuit test<br>Annex S Tests for resistance to heat and fire / Distillate fuel oil as described in annex S.3.2<br>Annex U / Mechanical strength of CRTs and protection against the effects of implosion<br>Annex Y.2 (Annex C) / Ultraviolet light |      |     |      |

한국인정기구(KOLAS)는 국제시험기관인정협력체(ILAC)의 상호인정협정(MRA) 서명기구입니다.

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호 | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                              | 시험범위 | 사업장 | 현장<br>시험 |
|------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|----------|
|      |         | conditioning test<br>Annex Y 3 / Resistance<br>to corrosion, water<br>borne contaminants<br>Annex Y.3.3 / Water-<br>sulphur dioxide test<br>Annex Y.4.3 / Tensile<br>strength and elongation<br>tests<br>Annex Y.4.4 /<br>Compression test<br>Annex Y.4.5 / Oil<br>resistance<br>Annex Y.5 / Protection<br>from moisture<br>Annex Y.5.3 / Water<br>spray test<br>Annex Y.5.5 / Protection<br>from excessive dust<br>Annex Y.6.2 / Impact<br>test |      |     |          |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호             | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 62368-1:2023 | 가정용 전기기기 | Audio/video, information and communication technology equipment - Part 1: Safety requirements<br>[제외항목]<br>5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly mounted / Vicat test B 50 of ISO 306<br>5.4.1.4, 9.2.5 Maximum operating temperatures for materials, components and systems / Three phase voltage supply systems<br>5.4.2, 5.4.3, 5.4.4 Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112<br>5.4.2, 5.4.3, 5.4.4, Annex X Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112 / Mandrel (figure 25 to 28), metal foil, equipment suitable for electrical strength test loads Stop watch, weight<br>5.4.1.5.3 Thermal cycling test procedure<br>5.6.4.1 Determination of the overcurrent protective device and circuit (Annex R) / Source with at least 1500A short circuit<br>10 Radiation / Laser (including laser diodes)<br>10 Radiation / Light emitting diodes (LEDs)<br>10 Radiation / Image Projector<br>10 Radiation / X-ray<br>10 Radiation / Effect of UV radiation on materials (Annex C)<br>10 Radiation / Human exposure to UV radiation (Annex C)<br>Annex C UV radiation / Carbon-arc light- | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature: (-40 ~ 850) °C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4000 MΩ | 소재지 | N    |

한국인정기구(KOLAS)는 국제시험기관인정협력체(ILAC)의 상호인정협정(MRA) 서명기구입니다.

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호 | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 시험범위 | 사업장 | 현장시험 |
|------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|
|      |         | exposure test<br>Annex C UV radiation / Xenon-arc light-exposure test<br>Annex C UV radiation /Tensile strength, ISO 527<br>Annex C UV radiation / Flexural strength, ISO 178<br>Annex C UV radiation / Charpy impact, ISO 179<br>Annex C UV radiation / Izod impact, ISO 180<br>Annex C UV radiation / Tensile impact, ISO 8256<br>Annex G.5.3.4 / Test for FIW<br>Annex G.7 Mains supply cords / Test equipment according IEC 60227<br>Annex G.9 / IC current limiters<br>Annex G.13.6.2 / Test method and compliance criteria<br>Annex G.13.6.2 / Abrasion resistance test<br>Annex G.15 / Hydrostatic pressure<br>Annex G.15 / Tubing and fittings compatibility test<br>Annex J / Insulated winding wires for use without interleaved insulation<br>Annex M.7 / Concentration of hydrogen gas<br>Annex M.8.2 / Protection against internal ignition from external spark sources - Spark Test<br>Annex R / Limited Short-circuit test<br>Annex S Tests for resistance to heat and fire / Distillate fuel oil as described in annex S.3.2<br>Annex U / Mechanical strength of CRTs and protection against the effects of implosion<br>Annex Y.2 (Annex C) / Ultraviolet light conditioning test |      |     |      |

한국인정기구(KOLAS)는 국제시험기관인정협력체(ILAC)의 상호인정협정(MRA) 서명기구입니다.

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호             | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                       | 시험범위                                                                                                                                                                                                                                                                      | 사업장 | 현장시험 |
|------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
|                  |          | Annex Y 3 / Resistance to corrosion, water borne contaminants<br>Annex Y.3.3 / Water-sulphur dioxide test<br>Annex Y.4.3 / Tensile strength and elongation tests<br>Annex Y.4.4 / Compression test<br>Annex Y.4.5 / Oil resistance<br>Annex Y.5 / Protection from moisture<br>Annex Y.5.3 / Water spray test<br>Annex Y.5.5 / Protection from excessive dust<br>Annex Y.6.2 / Impact test |                                                                                                                                                                                                                                                                           |     |      |
| K 60950-1:2011   | 가정용 전기기기 | 정보기술기기 - 안전 제1부:일반 요구사항<br>[제외항목]<br>2.10.8.4 내마모성 시험<br>3.2.5.1 외부유연성 전원 코드<br>4.2.8 브라운관<br>4.3.12 가연성 액체<br>4.3.13.2 이온화 방사<br>4.3.13.3. UV<br>4.3.13.4 자외선의 인체노출<br>4.3.13.5 Laser<br>부속서 A3 점화유 시험<br>부속서 H 이온화 방사<br>부속서 AA 맨드릴 시험                                                                                                                                                  | 단상 입력전압:AC 300 V 이하<br>단상 입력전류:20 A 이하<br>주파수 범위:(50 ~ 60) Hz<br>내전압 범위:(0 ~ 5) kV<br>누설전류 범위:(0 ~ 10) mA<br>접지 연속성 전압:AC 또는 DC 12 V 이하<br>접지 연속성 전류:AC 또는 DC 45 A 이하<br>온도:(0 ~ 200) °C<br>상대습도:98 % R.H. 이하                                                             | 소재지 | N    |
| K60335-2-85:2007 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 제2-85부: 직물용 전기스티머의 개별요구 사항                                                                                                                                                                                                                                                                                                                                         | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>주파수 범위: (50 ~ 60) Hz<br>내전압 범위: (0 ~ 10) kV<br>누설 전류 범위: (0 ~ 10) mA<br>접지 도통 전압: AC/DC 12 V 이하<br>접지 도통 전류: AC/DC 45 A 이하<br>온도: (-40 ~ 850) °C<br>상대 습도: 98% R.H. 이하<br>절연 저항 기준 전압: DC 1000 V 이하<br>절연 저항 측정 범위: 4000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호               | 제품 및 물질  | 규격명                                                                                                                                                                                                                            | 시험범위                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|--------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KC 60335-1:2022    | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 - 제1부: 일반 요구사항<br><br>[제외 항목]<br>14 과도 과전압 시험<br>19.11.4 이상 운전 시험<br>22.32 고무 노화 시험<br>24 부품<br>Annex F 캐피시터<br>Annex H 스위치<br>Annex J 코팅 인쇄 회로 기판<br>Annex R 소프트웨어 평가<br>Annex T 비금속 재료에 대한 UV-C 방사 효과 | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>주파수 범위: (50 ~ 60) Hz<br>내전압 범위: (0 ~ 10) kV<br>누설 전류 범위: (0 ~ 10) mA<br>접지 도통 전압: AC / DC 12 V 이하<br>접지 도통 전류: AC / DC 45 A 이하<br>온도: (-40 ~ 850) °C<br>상대 습도: 98 % R.H. 미만<br>절연 저항 기준 전압: DC 1 000 V 이하<br>절연 저항 측정 범위: 4 000 MΩ | 소재지 | N    |
| KC 60335-2-11:2021 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 - 제2-11부: 회전식 건조기의 개별 요구사항                                                                                                                                                                              | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>누설 전류: 10 mA 이하<br>전지 연속성 전압: 8 V 이하<br>전지 연속성 전류: 45 A 이하<br>내전압: 10 kV 이하<br>온도: (-40 ~ 850) °C<br>습도: 98 % R.H. 이하                                                                                                              | 소재지 | N    |
| KC 60335-2-14:2016 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 - 제2-14부: 주방기기의 개별 요구사항<br><br>[제외 항목]<br>25.7절 - 추가                                                                                                                                                    | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>누설 전류: 10 mA 이하<br>전지 연속성 전압: 8 V 이하<br>전지 연속성 전류: 45 A 이하<br>내전압: 10 kV 이하<br>온도: (-40 ~ 850) °C<br>습도: 98 % R.H. 이하                                                                                                              | 소재지 | N    |
| KC 60335-2-15:2022 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 - 제2-15부: 액체가열용 전기기기의 개별 요구사항<br><br>[제외 항목]<br>22.103 - 무선 기기의 기 용 커플러의 내구성 시험                                                                                                                         | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>누설 전류: 10 mA 이하<br>온도: (-40 ~ 200) °C<br>전지 연속성 전압: 8 V 이하<br>전지 연속성 전류: 45 A 이하<br>내전압: 10 kV 이하<br>절연 저항: 4 MΩ 이하<br>습도: 98 % R.H. 이하                                                                                            | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호               | 제품 및 물질  | 규격명                                                        | 시험범위                                                                                                                                                                                                                                                                      | 사업장 | 현장시험 |
|--------------------|----------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KC 60335-2-16:2015 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 - 제2-16부:음식물쓰레기처리기의 개별요구사항          | 단상 입력전압:AC 600 V 이하<br>단상 입력전류:20 A 이하<br>누설전류:10 mA 이하<br>온도:(-40 ~ 200) °C<br>전지 연속성 전압:8 V 이하<br>접지 연속성 전류:45 A 이하<br>내전압:10 kV 이하<br>절연저항:4 MΩ 이하<br>습도:98 % R.H. 이하                                                                                                  | 소재지 | N    |
| KC 60335-2-21:2022 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 - 제2-21부:전기온수기의 개별요구사항              | 단상 입력전압:AC 600 V 이하<br>단상 입력전류:20 A 이하<br>누설전류:10 mA 이하<br>온도:(-40 ~ 200) °C<br>전지 연속성 전압:8 V 이하<br>접지 연속성 전류:45 A 이하<br>내전압:10 kV 이하<br>절연저항:4 MΩ 이하<br>습도:98 % R.H. 이하                                                                                                  | 소재지 | N    |
| KC 60335-2-23:2022 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 - 제2-23부:피부손질 또는 모발손질용 전기기기의 개별요구사항 | 단상 입력전압:AC 600 V 이하<br>단상 입력전류:20 A 이하<br>누설전류:10 mA 이하<br>전지 연속성 전압:8 V 이하<br>접지 연속성 전류:45 A 이하<br>내전압:10 kV 이하<br>온도:(-40 ~ 850) °C<br>습도:98 % R.H. 이하                                                                                                                  | 소재지 | N    |
| KC 60335-2-29:2020 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 제2-29부:배터리 충전기의 개별요구사항              | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>주파수 범위: (50 ~ 60) Hz<br>내전압 범위: (0 ~ 10) kV<br>누설 전류 범위: (0 ~ 10) mA<br>접지 도통 전압: AC/DC 12 V 이하<br>접지 도통 전류: AC/DC 45 A 이하<br>온도: (-40 ~ 850) °C<br>상대 습도: 98% R.H. 이하<br>절연 저항 기준 전압: DC 1000 V 이하<br>절연 저항 측정 범위: 4000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호               | 제품 및 물질  | 규격명                                                                                                                                                                                                          | 시험범위                                                                                                                                                                                                                                                                      | 사업장 | 현장시험 |
|--------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KC 60335-2-2:2015  | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 -제2-2부:전기진공청소기 및 물 흡입청소기의 개별 요구사항<br><br>[제외항목]<br>21.101 - 통전호스 파쇄 내성 시험<br>21.102 - 통전호스 마모 내성 시험<br>21.103 - 통전호스 굽힘 내성 시험<br>21.104 - 통전호스 비틀림 내성 시험<br>21.105 - 통전호스 저온 조건 내성 시험 | 단상 입력전압:AC 600 V 이하<br>단상 입력전류:20 A 이하<br>누설전류:10 mA 이하<br>전지 연속성 전압:8 V 이하<br>접지 연속성 전류:45 A 이하<br>내전압:10 kW 이하<br>온도:(- 40 ~ 850) °C<br>습도:98 % R.H. 이하                                                                                                                 | 소재지 | N    |
| KC 60335-2-31:2022 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 제2-31부: 레인지 후드의 개별 요구사항                                                                                                                                                               | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>주파수 범위: (50 ~ 60) Hz<br>내전압 범위: (0 ~ 10) kV<br>누설 전류 범위: (0 ~ 10) mA<br>접지 도통 전압: AC/DC 12 V 이하<br>접지 도통 전류: AC/DC 45 A 이하<br>온도: (-40 ~ 850) °C<br>상대 습도: 98% R.H. 이하<br>절연 저항 기준 전압: DC 1000 V 이하<br>절연 저항 측정 범위: 4000 MΩ | 소재지 | N    |
| KC 60335-2-32:2015 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 - 제2-32부:전기 마사지기기의 개별 요구사항                                                                                                                                                            | 단상 입력전압:AC 600 V 이하<br>단상 입력전류:20 A 이하<br>누설전류:10 mA 이하<br>전지 연속성 전압:8 V 이하<br>접지 연속성 전류:45 A 이하<br>내전압:10 kW 이하<br>온도:(- 40 ~ 850) °C<br>습도:98 % R.H. 이하                                                                                                                 | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호               | 제품 및 물질  | 규격명                                                    | 시험범위                                                                                                                                                                                                                                                                      | 사업장 | 현장시험 |
|--------------------|----------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KC 60335-2-35:2022 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 제2-35부: 순간온수기의 개별 요구사항          | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>주파수 범위: (50 ~ 60) Hz<br>내전압 범위: (0 ~ 10) kV<br>누설 전류 범위: (0 ~ 10) mA<br>접지 도통 전압: AC/DC 12 V 이하<br>접지 도통 전류: AC/DC 45 A 이하<br>온도: (-40 ~ 850) °C<br>상대 습도: 98% R.H. 이하<br>절연 저항 기준 전압: DC 1000 V 이하<br>절연 저항 측정 범위: 4000 MΩ | 소재지 | N    |
| KC 60335-2-37:2015 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 제2-37부: 상업용 전기 튀김기에 대한 개별 요구 사항 | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>주파수 범위: (50 ~ 60) Hz<br>내전압 범위: (0 ~ 10) kV<br>누설 전류 범위: (0 ~ 10) mA<br>접지 도통 전압: AC/DC 12 V 이하<br>접지 도통 전류: AC/DC 45 A 이하<br>온도: (-40 ~ 850) °C<br>상대 습도: 98% R.H. 이하<br>절연 저항 기준 전압: DC 1000 V 이하<br>절연 저항 측정 범위: 4000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호               | 제품 및 물질  | 규격명                                                    | 시험범위                                                                                                                                                                                                                                                                      | 사업장 | 현장시험 |
|--------------------|----------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KC 60335-2-39:2015 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 제2-39부: 상업용 전기 다목적 조리팬의 개별 요구사항 | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>주파수 범위: (50 ~ 60) Hz<br>내전압 범위: (0 ~ 10) kV<br>누설 전류 범위: (0 ~ 10) mA<br>접지 도통 전압: AC/DC 12 V 이하<br>접지 도통 전류: AC/DC 45 A 이하<br>온도: (-40 ~ 850) °C<br>상대 습도: 98% R.H. 이하<br>절연 저항 기준 전압: DC 1000 V 이하<br>절연 저항 측정 범위: 4000 MΩ | 소재지 | N    |
| KC 60335-2-3:2016  | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 제2-3부: 전기다리미의 개별 요구사항           | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>주파수 범위: (50 ~ 60) Hz<br>내전압 범위: (0 ~ 10) kV<br>누설 전류 범위: (0 ~ 10) mA<br>접지 도통 전압: AC/DC 12 V 이하<br>접지 도통 전류: AC/DC 45 A 이하<br>온도: (-40 ~ 850) °C<br>상대 습도: 98% R.H. 이하<br>절연 저항 기준 전압: DC 1000 V 이하<br>절연 저항 측정 범위: 4000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호               | 제품 및 물질  | 규격명                                                   | 시험범위                                                                                                                                                                                                                                                                      | 사업장 | 현장시험 |
|--------------------|----------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KC 60335-2-43:2022 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 제2-43부: 의류 건조기 및 타월 걸이의 개별요구사항 | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>주파수 범위: (50 ~ 60) Hz<br>내전압 범위: (0 ~ 10) kV<br>누설 전류 범위: (0 ~ 10) mA<br>접지 도통 전압: AC/DC 12 V 이하<br>접지 도통 전류: AC/DC 45 A 이하<br>온도: (-40 ~ 850) °C<br>상대 습도: 98% R.H. 이하<br>절연 저항 기준 전압: DC 1000 V 이하<br>절연 저항 측정 범위: 4000 MΩ | 소재지 | N    |
| KC 60335-2-44:2021 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 제2-44부: 전기 주름 펴기에 대한 개별 요구사항   | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>주파수 범위: (50 ~ 60) Hz<br>내전압 범위: (0 ~ 10) kV<br>누설 전류 범위: (0 ~ 10) mA<br>접지 도통 전압: AC/DC 12 V 이하<br>접지 도통 전류: AC/DC 45 A 이하<br>온도: (-40 ~ 850) °C<br>상대 습도: 98% R.H. 이하<br>절연 저항 기준 전압: DC 1000 V 이하<br>절연 저항 측정 범위: 4000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호               | 제품 및 물질  | 규격명                                                | 시험범위                                                                                                                                                                                                                                                                      | 사업장 | 현장시험 |
|--------------------|----------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KC 60335-2-47:2015 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 제2-47부:상업용 전기 끓임팬의 개별 요구사항  | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>주파수 범위: (50 ~ 60) Hz<br>내전압 범위: (0 ~ 10) kV<br>누설 전류 범위: (0 ~ 10) mA<br>접지 도통 전압: AC/DC 12 V 이하<br>접지 도통 전류: AC/DC 45 A 이하<br>온도: (-40 ~ 850) °C<br>상대 습도: 98% R.H. 이하<br>절연 저항 기준 전압: DC 1000 V 이하<br>절연 저항 측정 범위: 4000 MΩ | 소재지 | N    |
| KC 60335-2-4:2016  | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 - 제2-4부:전기 탈수기의 개별 요구사항     | 단상 입력전압:AC 600 V 이하<br>단상 입력전류:20 A 이하<br>누설전류:10 mA 이하<br>전지 연속성 전압:8 V 이하<br>전지 연속성 전류:45 A 이하<br>내전압:10 kW 이하<br>온도:(- 40 ~ 850) °C<br>습도:98 % R.H. 이하                                                                                                                 | 소재지 | N    |
| KC 60335-2-50:2015 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 제2-50부: 상업용 전기 이중냄비의 개별요구사항 | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>주파수 범위: (50 ~ 60) Hz<br>내전압 범위: (0 ~ 10) kV<br>누설 전류 범위: (0 ~ 10) mA<br>접지 도통 전압: AC/DC 12 V 이하<br>접지 도통 전류: AC/DC 45 A 이하<br>온도: (-40 ~ 850) °C<br>상대 습도: 98% R.H. 이하<br>절연 저항 기준 전압: DC 1000 V 이하<br>절연 저항 측정 범위: 4000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호               | 제품 및 물질  | 규격명                                                                                                                                 | 시험범위                                                                                                                                                                                                                                                                      | 사업장 | 현장시험 |
|--------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KC 60335-2-58:2022 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 - 제2-58부:상업용 전기 식기세척기의 개별 요구사항<br><br>[제외항목]<br>Annex BB - 엘라스토메릭 부분에 대한 열화 시험<br>Annex CC - 역류 방지를 위한 요구 사항 | 단상 입력전압:AC 600 V 이하<br>단상 입력전류:20 A 이하<br>누설전류:10 mA 이하<br>전지 연속성 전압:8 V 이하<br>접지 연속성 전류:45 A 이하<br>내전압:10 kW 이하<br>온도:(- 40 ~ 850) °C<br>습도:98 % R.H. 이하                                                                                                                 | 소재지 | N    |
| KC 60335-2-59:2015 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 제2-59부: 전기살충기의 개별 요구사항                                                                                       | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>주파수 범위: (50 ~ 60) Hz<br>내전압 범위: (0 ~ 10) kV<br>누설 전류 범위: (0 ~ 10) mA<br>전지 도통 전압: AC/DC 12 V 이하<br>접지 도통 전류: AC/DC 45 A 이하<br>온도: (-40 ~ 850) °C<br>상대 습도: 98% R.H. 이하<br>절연 저항 기준 전압: DC 1000 V 이하<br>절연 저항 측정 범위: 4000 MΩ | 소재지 | N    |
| KC 60335-2-5:2016  | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 - 제2-5부:전기 식기세척기의 개별 요구사항<br><br>[제외항목]<br>Annex BB - 엘라스토머 부품의 노화 시험                                        | 단상 입력전압:AC 600 V 이하<br>단상 입력전류:20 A 이하<br>누설전류:10 mA 이하<br>전지 연속성 전압:8 V 이하<br>접지 연속성 전류:45 A 이하<br>내전압:10 kW 이하<br>온도:(- 40 ~ 850) °C<br>습도:98 % R.H. 이하                                                                                                                 | 소재지 | N    |

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제 KT197호

| 규격번호               | 제품 및 물질  | 규격명                                                                                              | 시험범위                                                                                                                                                                                                                                                                      | 사업장 | 현장시험 |
|--------------------|----------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KC 60335-2-64:2015 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 제2-64부: 상업용 전기주방기기의 개별 요구사항                                               | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>주파수 범위: (50 ~ 60) Hz<br>내전압 범위: (0 ~ 10) kV<br>누설 전류 범위: (0 ~ 10) mA<br>접지 도통 전압: AC/DC 12 V 이하<br>접지 도통 전류: AC/DC 45 A 이하<br>온도: (-40 ~ 850) °C<br>상대 습도: 98% R.H. 이하<br>절연 저항 기준 전압: DC 1000 V 이하<br>절연 저항 측정 범위: 4000 MΩ | 소재지 | N    |
| KC 60335-2-65:2022 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 - 제2-65부: 공기청정기의 개별 요구사항<br>[제외항목]<br>32 - 방사선, 독성 및 이와 유사한 위험            | 단상 입력전압: AC 600 V 이하<br>단상 입력전류: 20 A 이하<br>누설전류: 10 mA 이하<br>전지 연속성 전압: 8 V 이하<br>전지 연속성 전류: 45 A 이하<br>내전압: 10 kV 이하<br>온도: (- 40 ~ 850) °C<br>습도: 98 % R.H. 이하                                                                                                         | 소재지 | N    |
| KC 60335-2-75:2015 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 - 제2-75부: 상업용디스펜싱기기 및 자동판매기의 개별 요구사항<br>[제외항목]<br>Annex AA - 탄성 부품의 노화 시험 | 단상 입력전압: AC 600 V 이하<br>단상 입력전류: 20 A 이하<br>누설전류: 10 mA 이하<br>전지 연속성 전압: 8 V 이하<br>전지 연속성 전류: 45 A 이하<br>내전압: 10 kV 이하<br>온도: (- 40 ~ 850) °C<br>습도: 98 % R.H. 이하                                                                                                         | 소재지 | N    |
| KC 60335-2-80:2022 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 - 제2-80부: 전기 팬(fan)의 개별 요구사항                                              | 단상 입력전압: AC 600 V 이하<br>단상 입력전류: 20 A 이하<br>누설전류: 10 mA 이하<br>전지 연속성 전압: 8 V 이하<br>전지 연속성 전류: 45 A 이하<br>내전압: 10 kV 이하<br>온도: (- 40 ~ 850) °C<br>습도: 98 % R.H. 이하                                                                                                         | 소재지 | N    |

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| 규격번호               | 제품 및 물질  | 규격명                                                                                                        | 시험범위                                                                                                                                                                                                                                                                      | 사업장 | 현장시험 |
|--------------------|----------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KC 60335-2-8:2016  | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 - 제2-8부:면도기, 이발기 및 이와 유사한 전기기기의 개별 요구사항<br><br>[제외항목]<br>Annex BB - 엘라스토머 부품의 노화 시험 | 단상 입력전압:AC 600 V 이하<br>단상 입력전류:20 A 이하<br>누설전류:10 mA 이하<br>전지 연속성 전압:8 V 이하<br>접지 연속성 전류:45 A 이하<br>내전압:10 kV 이하<br>온도:(- 40 ~ 850) °C<br>습도:98 % R.H. 이하                                                                                                                 | 소재지 | N    |
| KC 60335-2-98:2015 | 가정용 전기기기 | 가정용 및 이와 유사한 전기기기의 안전성 제2-98부: 전기 가습기의 개별 요구 사항                                                            | 단상 입력 전압: AC 600 V 이하<br>단상 입력 전류: 20 A 이하<br>주파수 범위: (50 ~ 60) Hz<br>내전압 범위: (0 ~ 10) kV<br>누설 전류 범위: (0 ~ 10) mA<br>전지 도통 전압: AC/DC 12 V 이하<br>접지 도통 전류: AC/DC 45 A 이하<br>온도: (-40 ~ 850) °C<br>상대 습도: 98% R.H. 이하<br>절연 저항 기준 전압: DC 1000 V 이하<br>절연 저항 측정 범위: 4000 MΩ | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호            | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 시험범위                                                                                                                                                                                                                | 사업장 | 현장시험 |
|-----------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KC 62368-1:2021 | 가정용 전기기기 | 오디오/비디오 및 정보통신기술기기 - 제1부 : 안전 요구 사항<br><br>[제외항목]<br>5.4.1.10 전도성 금속부가 직접 장착되어 있는 열가소성 부위 / KS M ISO 306의 연화온도(Vicat) 시험 B50<br>5.4.1.4, 9.2.5 재질, 부품 및 시스템에 대한 최대 동작 온도 / 3상 전압 공급 시스템<br>5.4.2, 5.4.3, 5.4.4 공간거리, 연면거리, 고체절연 / KS C IEC 60112에 따르는 트래킹 지수 장비<br>5.4.2, 5.4.3, 5.4.4, 부속서 X 공간거리, 연면거리, 고체절연, 420 V 피크 (300 V RMS)를 초과하지 않는 AC 주전원에 연결된 회로에서 절연의 공간거리 측정을 위한 대체 방안 / KS C IEC 60112에 따르는 트래킹 지수 장비 / 맨드렐 (mandrel) (그림 21 to 24), 금속 호일, 내전압 시험장비, 초시계, 중량 등 시험에 적합한 장비<br>5.4.1.5.3 열 사이클링 시험절차<br>5.6.4.1 과전류 보호 장치 및 회로의 결정(부속서 R) / 최소 1500 A 단락회로가 있는 공급원<br>10 방사(선) / 레이저(레이저 다이오드 포함)<br>10 방사(선) / 이미지 프로젝터에 사용되는 것을 제외한 램프 및 램프 시스템(LED 포함)<br>10 방사(선) / 이미지 프로젝터(빔프로젝터)<br>10 방사(선) / X-ray<br>10 방사(선) / 재료에 대한 UV방사 영향(부속서 C)<br>10 방사(선) / UV방사선에 대한 인체 노출(부속서 C)<br>부속서 C 자외선 / 탄소 아크 노광 시험<br>부속서 C 자외선 / 제논 아크 노광 시험<br>부속서 C 자외선 / 장력 강도, ISO 527 시리즈<br>부속서 C 자외선 / 굴곡 강도, ISO 178<br>부속서 C 자외선 / 샤르피(charpy) 충격, ISO 179 | 단상 입력전압: AC 300 V 이하<br>단상 입력전류: 20 A 이하<br>주파수 범위: (50 ~ 60) Hz<br>내전압 범위: (0 ~ 5) kV<br>누설전류범위: (0 ~ 10) mA<br>접지연속성 전압: AC 또는 DC 12 V 이하<br>접지 연속성 전류: AC 또는 DC 45 A 이하<br>온도: (0 ~ 200) °C<br>상대습도: 98 %R.H. 이하 | 소재지 | N    |

한국인정기구(KOLAS)는 국제시험기관인정협력체(ILAC)의 상호인정협정(MRA) 서명기구입니다.

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호 | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 시험범위 | 사업장 | 현장시험 |
|------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|
|      |         | 부속서 C 자외선 / 아이조드(izod) 충격, ISO 180<br>부속서 C 자외선 / 장력 충격, ISO 8256<br>부속서 G.5.3.4 / FIW 시험<br>부속서 G.7 주전원 코드/ IEC 60227에 규정된 시험<br>장비<br>부속서 G.9 집적회로(IC) 전류 제한기<br>부속서 G.13.6.2 시험방법 및 적합성 기준<br>부속서 G.13.6.2 내마모성 시험<br>부속서 G.15.2.1 수압시험<br>부속서 G.15.2.3 튜빙 및 피팅 호환성 시험<br>부속서 J 중간절연 없이 사용하기 위한 절연권선 전선<br>부속서 M.7 수소가스 농도<br>부속서 M.8.2 수성 전해액 배터리의 외부 스파크 원으로부터 내부 점화에 대한 보호-스파크 시험<br>부속서 R 제한 단락 회로 시험<br>부속서 S 내열 및 내화성 시험 / 부속서 S.3.2 시험<br>부속서 U CRTs의 기계적 강도 및 내파 영향에 대한 보호<br>부속서 Y.2(Annex C) 자외선에 대한 내성<br>부속서 Y.3 부식에 대한 내성<br>부속서 Y.3.3 수포화 이산화황<br>부속서 Y.4.3 인장 강도 및 연신율 시험<br>부속서 Y.4.4 압축 시험<br>부속서 Y.4.5 내유성<br>부속서 Y.5.2 습기로부터의 보호<br>부속서 Y.5.3 물 분무 시험<br>부속서 Y.5.5 과도한 먼지로부터의 보호<br>부속서 Y.6.2 충격 시험 |      |     |      |

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제 KT197호

| 규격번호            | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                     | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-----------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| UL 60950-1:2011 | 가정용 전기기기 | Information technology equipment - Safety Part 1:General requirements<br><br>[Exception]<br>2.10.8.4 Abrasion resistance test<br>3.2.5.1 AC power supply cords<br>4.2.8 Cathode ray tubes<br>4.3.12 Flammable liquids<br>4.3.13.2 Ionizing radiation<br>4.3.13.3 UV<br>4.3.13.4 Human exposure to ultraviolet (UV) radiation<br>4.3.13.5 Laser<br>ANNEX A.3 Hot flaming oil test<br>ANNEX H Ionizing radiation<br>ANNEX AA Mandrel test | Single-phase input voltage: Less than AC 600 V<br>Single-phase input current: Less than 20 A<br>Frequency range: (50 to 60) Hz<br>Withstand voltage range: (0 ~ 10) kV<br>Leakage current range: (0 ~ 10) mA<br>Ground continuity voltage: Less than AC/DC 12 V<br>Ground continuity current: Less than AC/DC 45 A<br>Temperature:(-40 ~ 850)°C<br>Relative humidity: Less than 98 % R.H.<br>Insulation resistance reference voltage: Less than DC 1 000 V<br>Insulation resistance measurement range: 4 000 MΩ | 소재지 | N    |

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## 03. 전기시험

### 03.008 유/무선 통신기기

| 규격번호                      | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                | 시험범위            | 사업장    | 현장 시험 |
|---------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------|-------|
| 1999/519/EC               | 유/무선 통신기기 | Council recommendation of 12 July 1999 on the limitation of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz )                                                                                                                            | 0 Hz ~ 40 GHz   | 소재지    | N     |
| 3GPP TS 25.144 V11.2:2012 | 유/무선 통신기기 | 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; User Equipment(UE) and Mobile Station(MS) over the air performance requirements                                                                                            | 700 MHz ~ 6 GHz | 부속시설-3 | N     |
| 3GPP TS 34.114 V12.2:2016 | 유/무선 통신기기 | 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; User Equipment(UE)/Mobile Station(MS) Over The Air(OTA) antenna performance; Conformance testing                                                                           | 700 MHz ~ 6 GHz | 부속시설-3 | N     |
| 3GPP TS 37.544 V16.3:2024 | 유/무선 통신기기 | 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Universal Terrestrial Radio Access (UTRA) and Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) Over The Air (OTA) performance; Conformance testing | 700 MHz ~ 6 GHz | 부속시설-3 | N     |

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| 규격번호                                         | 제품 및 물질       | 규격명                                                                                                                                                                                                                                                                                 | 시험범위           | 사업장 | 현장시험 |
|----------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------|
| 3GPP TS 51 010-1<br>V13.12.0 Section<br>12.2 | 유/무선 통신기<br>기 | 3rd Generation<br>Partnership Project;<br>Technical Specification<br>Group Radio Access<br>Network;<br>Digital cellular<br>telecommunications<br>system (Phase 2+);<br>Mobile Station (MS)<br>conformance<br>specification;<br>Part 1: Conformance<br>specification<br>(Release 13) | 30 MHz ~ 4 GHz | 소재지 | N    |
| 3GPP TS 51 010-1<br>V13.13.0 Section<br>12.2 | 유/무선 통신기<br>기 | 3rd Generation<br>Partnership Project;<br>Technical Specification<br>Group Radio Access<br>Network; Digital cellular<br>telecommunications<br>system (Phase 2+);<br>Mobile Station (MS)<br>conformance<br>specification;<br>Part 1: Conformance<br>specification<br>(Release 13)    | 30 MHz ~ 4 GHz | 소재지 | N    |
| 3GPP TS 51 010-1<br>V13.14.0 Section<br>12.2 | 유/무선 통신기<br>기 | 3rd Generation<br>Partnership Project;<br>Technical Specification<br>Group Radio Access<br>Network; Digital cellular<br>telecommunications<br>system (Phase 2+);<br>Mobile Station (MS)<br>conformance<br>specification;<br>Part 1: Conformance<br>specification<br>(Release 13)    | 30 MHz ~ 4 GHz | 소재지 | N    |
| ACMA Radio<br>communications<br>2003         | 유/무선 통신기<br>기 | AUSTRALIA Radio<br>communications(Electro<br>magnetic Radiation -<br>Human Exposure)<br>Standard 2003                                                                                                                                                                               | 30 MHz ~ 6 GHz | 소재지 | N    |
| ACMA Radio<br>communications<br>2014         | 유/무선 통신기<br>기 | AUSTRALIA Radio<br>communications(Electro<br>magnetic Radiation -<br>Human Exposure)<br>Standard 2014                                                                                                                                                                               | 30 MHz ~ 6 GHz | 소재지 | N    |
| ACMA<br>Radiocommunicati<br>ons: 2021        | 유/무선 통신기<br>기 | AUSTRALIA<br>Radiocommunications<br>Equipment (General)<br>Rules 2021                                                                                                                                                                                                               | 30 MHz ~ 6 GHz | 소재지 | N    |

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| 규격번호                | 제품 및 물질   | 규격명                                                                                                                                                                 | 시험범위                                                 | 사업장 | 현장시험 |
|---------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----|------|
| ANSI C63.10:2013    | 유/무선 통신기기 | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices                                                                      | 9 kHz ~ 243 GHz                                      | 소재지 | N    |
| ANSI C63.10:2020    | 유/무선 통신기기 | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices                                                                      | 9 kHz ~ 243 GHz                                      | 소재지 | N    |
| ANSI C63.19:2019    | 유/무선 통신기기 | American National Standard Methods of Measurements of Compatibility between wireless Communications devices and Hearing Aids                                        | H Field:10 mA/m ~ 2 A/m<br>E Field:2 V/m ~ 1 000 V/m | 소재지 | N    |
| ANSI C63.26:2015    | 유/무선 통신기기 | American National Standard for Compliance Testing of Transmitters Use in Licensed Radio Services                                                                    | 9 kHz - 325 GHz                                      | 소재지 | N    |
| ANSI C63.4:2009     | 유/무선 통신기기 | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz | 9 kHz ~ 40 GHz                                       | 소재지 | N    |
| ANSI C63.4:2014     | 유/무선 통신기기 | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz | 9 kHz ~ 40 GHz                                       | 소재지 | N    |
| ANSI/TIA-5050:2018  | 유/무선 통신기기 | Telecommunications Communications Products Receive Volume Control Requirements for Wireless (Mobile) Devices                                                        | 100 Hz ~ 8 kHz                                       | 소재지 | N    |
| ANSI/TIA-603-D:2010 | 유/무선 통신기기 | Land Mobile FM or PM - Communications Equipment - Measurement and Performance Standards                                                                             | 9 kHz ~ 40 GHz                                       | 소재지 | N    |

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| 규격번호                                        | 제품 및 물질   | 규격명                                                                                                                                     | 시험범위                                                                                                                                                                                             | 사업장 | 현장시험 |
|---------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| ANSI/TIA-603-E:2016                         | 유/무선 통신기기 | Land Mobile FM or PM - Communications Equipment - Measurement and Performance Standards                                                 | 9 kHz ~ 40 GHz                                                                                                                                                                                   | 소재지 | N    |
| ARIB STD-T56 3.3:2015                       | 유/무선 통신기기 | SPECIFIC ABSORPTION RATE (SAR) ESTIMATION FOR CELLULAR PHONE                                                                            | 30 MHz ~ 6 GHz                                                                                                                                                                                   | 소재지 | N    |
| ARPANSA Radiation Protection Standard: 2021 | 유/무선 통신기기 | Standard for Limiting Exposure to Radiofrequency Fields - 100 kHz to 300 GHz                                                            | 3 kHz ~ 40 GHz                                                                                                                                                                                   | 소재지 | N    |
| AS/ACIF S031:2015                           | 유/무선 통신기기 | Telecommunications Technical Standard (Requirements for ISDN Basic Access Interface)                                                    | Loop feed channel output 전압:DC:110 V 이하<br>전류제한:200 mA 이하<br>전압분해능:30 mV<br>전압정확도:200 mV<br>극성변환시간:0.2 ms 미만<br>직렬저항:300 kΩ 이하<br>Ring generator Output 전압:AC:(0 ~ 150) V<br>주파수범위:(15 ~ 100) Hz | 소재지 | N    |
| AS/ACIF S038:2015                           | 유/무선 통신기기 | Telecommunications Technical Standard (Requirements for ISDN Primary Rate Access Interface)                                             | Loop feed channel output 전압:DC:110 V 이하<br>전류제한:200 mA 이하<br>전압분해능:30 mV<br>전압정확도:200 mV<br>극성변환시간:0.2 ms 미만<br>직렬저항:300 kΩ 이하<br>Ring generator Output 전압:AC:(0 ~ 150) V<br>주파수범위:(15 ~ 100) Hz | 소재지 | N    |
| AS/ACIF S041:2015                           | 유/무선 통신기기 | Telecommunications Technical Standard (Requirements for DSL Customer Equipment for connection to the Public Switched Telephone Network) | Loop feed channel output 전압:DC:110 V 이하<br>전류제한:200 mA 이하<br>전압분해능:30 mV<br>전압정확도:200 mV<br>극성변환시간:0.2 ms 미만<br>직렬저항:300 kΩ 이하<br>Ring generator Output 전압:AC:(0 ~ 150) V<br>주파수범위:(15 ~ 100) Hz | 소재지 | N    |

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| 규격번호               | 제품 및 물질   | 규격명                                                                                                                                                                           | 시험범위                                                                                                                                                                                                   | 사업장 | 현장시험 |
|--------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| AS/CA S002:2015    | 유/무선 통신기기 | Telecommunications Technical Standard (Analogue Interworking and Non-interference Requirements for Customer Equipment for Connection to the Public Switched Telephone Network | Loop feed channel output<br>전압:DC:110 V 이하<br>전류제한:200 mA 이하<br>전압분해능:30 mV<br>전압정확도:200 mV<br>극성변환시간:0.2 ms 미만<br>직렬저항:300 kΩ 이하<br>Ring generator Output<br>전압:AC:(0 ~ 150) V<br>주파수범위:(15 ~ 100) Hz | 소재지 | N    |
| AS/CA S003:2015    | 유/무선 통신기기 | Telecommunications Technical Standard (Requirements for Customer Access Equipment for Connection to a Telecommunications Network)                                             | Loop feed channel output<br>전압:DC:110 V 이하<br>전류제한:200 mA 이하<br>전압분해능:30 mV<br>전압정확도:200 mV<br>극성변환시간:0.2 ms 미만<br>직렬저항:300 kΩ 이하<br>Ring generator Output<br>전압:AC:(0 ~ 150) V<br>주파수범위:(15 ~ 100) Hz | 소재지 | N    |
| AS/CA S004:2015    | 유/무선 통신기기 | Telecommunications Technical Standard (Voice performance requirements for Customer Equipment)                                                                                 | SPL:100dB 이하<br>주파수범위:100 Hz ~ 8 kHz<br>출력임피던스:4 Ω<br>출력레벨:10 W 이하<br>입력임피던스:1 kΩ                                                                                                                      | 소재지 | N    |
| AS/CA S042.1:2022  | 유/무선 통신기기 | Requirements for connection to an air interface of a Telecommunications Network – Part 1:General                                                                              | SPL:162dB 이하<br>주파수범위:100 Hz ~ 8 kHz<br>출력임피던스:4 Ω<br>출력레벨:10 W 이하<br>입력임피던스:1 kΩ                                                                                                                      | 소재지 | N    |
| AS/CA S043:2015    | 유/무선 통신기기 | Telecommunications Technical Standard (Requirements for Customer Equipment for connection to a metallic local loop interface of a Telecommunications Network)                 | Loop feed channel output 전압:DC:110 V 이하<br>전류제한:200 mA 이하<br>전압분해능:30 mV<br>전압정확도:200 mV<br>극성변환시간:0.2 ms 미만<br>직렬저항:300 kΩ 이하<br>Ring generator Output<br>전압:AC:(0 ~ 150) V<br>주파수범위:(15 ~ 100) Hz    | 소재지 | N    |
| AS/NZS 2772.2:2016 | 유/무선 통신기기 | SPECIFIC ABSORPTION RATE (SAR) ESTIMATION FOR CELLULAR PHONE                                                                                                                  | 100 MHz ~ 6 GHz                                                                                                                                                                                        | 소재지 | N    |

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| 규격번호                                       | 제품 및 물질   | 규격명                                                                                                                                                                                                                                    | 시험범위                                                                       | 사업장    | 현장시험 |
|--------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------|------|
| AS/NZS 2772.2:2016 Amd 1:2018              | 유/무선 통신기기 | Principles and methods of measurement and computation - 3 kHz to 300 GHz                                                                                                                                                               | 100 MHz ~ 6 GHz                                                            | 소재지    | N    |
| CS-03 Part II Issue 9 Amendment 1:2012     | 유/무선 통신기기 | Part II:Requirements for Terminal Equipment Intended for Connection to 1.544 Mbps (DS-1) Digital Interfaces                                                                                                                            | 디지털신호원:1.544 Mbps (DS-1) 종단저항:100 Ω                                        | 소재지    | N    |
| CS-03 Part V Issue 9 Amendment 3:2021      | 유/무선 통신기기 | Requirements and Test Methods for Magnetic Output from Handset Telephones for Hearing Aid Coupling and for Receive Volume Control                                                                                                      | 주파수범위:(200 ~ 4 000) Hz<br>직류저항:900 Ω<br>인덕턴스:150 mH,<br>감도:-60 dBV / (A/m) | 소재지    | N    |
| CS-03 Part VI Issue 9 Amendment1:2012      | 유/무선 통신기기 | Part VI:Requirements for Integrated Services Digital Network Terminal Equipment                                                                                                                                                        | 디지털신호원:1.544 Mbps (DS-1) 종단저항:100 Ω                                        | 소재지    | N    |
| CS-03 Part VII Issue 9 Amendment 4:2012    | 유/무선 통신기기 | Part VII:Requirements for Limited-Distance Modem and Digital Subrate Terminal Equipment                                                                                                                                                | 입력임피던스:1 MΩ<br>종단저항:(141.75 ~ 128.25) Ω                                    | 소재지    | N    |
| CS-03 Part I Issue 9, Amendment 5:2016     | 유/무선 통신기기 | Part I:Requirements for Terminal Equipment(TE) and Related Access Arrangements Intended for Direct Connection to Analogue Wireline Facilities                                                                                          | 입력임피던스:600 Ω<br>주파수범위:100 Hz ~ 30 MHz                                      | 소재지    | N    |
| CS-03, Part VIII Issue 9, Amendment 6:2022 | 유/무선 통신기기 | Part VIII:Requirements and Test Methods for Digital Subscriber Line (xDSL) Terminal Equipment                                                                                                                                          | 주파수범위:200 Hz ~ 30 MHz<br>Balun 종단저항:100Ω, 600Ω                             | 소재지    | N    |
| CTIA 01.01 v6.0.3:2024                     | 유/무선 통신기기 | Test Scope, Requirements, and Applicability<br>[제외항목]<br>A-GPS L5 for LTE, A-GALILEO E1 for LTE, A-GPS L1 for NR FR1 EN-DC, A-GPS L1 for NR FR1, NR FR1 SA 2DL CA, NR FR1 SA 3DL CA, NR FR1 EN-DC with 2 LTE carriers and 1 NR carrier | 600 MHz ~ 6 GHz                                                            | 부속시설-3 | N    |
| CTIA 01.01:2022                            | 유/무선 통신기기 | Test Scope, Requirements, and Applicability                                                                                                                                                                                            | 600 MHz ~ 6 GHz                                                            | 부속시설-3 | N    |

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| 규격번호                      | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                   | 시험범위                                                 | 사업장    | 현장시험 |
|---------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------|------|
| CTIA 01.20<br>v6.0.2:2024 | 유/무선 통신기기 | Test Methodology, SISO, Anechoic Chamber                                                                                                                                                                                                                              | 600 MHz ~ 6 GHz                                      | 부속시설-3 | N    |
| CTIA 01.20:2022           | 유/무선 통신기기 | Test Methodology, SISO, Anechoic Chamber                                                                                                                                                                                                                              | 600 MHz ~ 6 GHz                                      | 부속시설-3 | N    |
| CTIA HAC Test Plan:2003   | 유/무선 통신기기 | Test Plan for Hearing Aid Compatibility                                                                                                                                                                                                                               | H Field:10 mA/m ~ 2 A/m<br>E Field:2 V/m ~ 1 000 V/m | 소재지    | N    |
| CTIA OTA Test Plan:2021   | 유/무선 통신기기 | CTIA Test Plan for Wireless Device Over-the Air Performance                                                                                                                                                                                                           | 600 MHz ~ 6 GHz                                      | 부속시설-3 | N    |
| CWG Test Plan v6.0.1:2024 | 유/무선 통신기기 | Test Plan for RF Performance Evaluation of Wi-Fi Mobile Converged Devices [제외항목] 802.11ax                                                                                                                                                                             | 600 MHz ~ 6 GHz                                      | 부속시설-3 | N    |
| EN 50360:2001             | 유/무선 통신기기 | Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields                                                                                                                       | 100 MHz ~ 6 GHz                                      | 소재지    | N    |
| EN 50360:2001 +A1:2012    | 유/무선 통신기기 | Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields                                                                                                                       | 100 MHz ~ 6 GHz                                      | 소재지    | N    |
| EN 50360:2017             | 유/무선 통신기기 | Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz:devices used next to the ear | 100 MHz ~ 6 GHz                                      | 소재지    | N    |

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| 규격번호                  | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                               | 시험범위             | 사업장 | 현장시험 |
|-----------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----|------|
| EN 50360:2017+A1:2023 | 유/무선 통신기기 | Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz: devices used next to the ear                            | 100 MHz ~ 6 GHz  | 소재지 | N    |
| EN 50385:2002         | 유/무선 통신기기 | Product standard to demonstrate the compliance of radio basestations and fixed terminal stations for wireless Telecommunication systems with the basic restrictions or the reference levels related to human exposure to radiofrequency electromagnetic fields(110 MHz - 40 GHz )- General Public | 110 MHz ~ 40 GHz | 소재지 | N    |
| EN 50385:2017         | 유/무선 통신기기 | Product standard to demonstrate the compliance of base station equipment with radiofrequency electromagnetic field exposure limits (110 MHz - 100 GHz), when placed on the market                                                                                                                 | 110 MHz ~ 40 GHz | 소재지 | N    |
| EN 50566:2013         | 유/무선 통신기기 | Product standard to demonstrate compliance of radio frequency fields from handheld and body-mounted wireless communication devices used by the general public (30 MHz - 6 GHz)                                                                                                                    | 100 MHz ~ 6 GHz  | 소재지 | N    |

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| 규격번호                  | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                       | 시험범위            | 사업장 | 현장시험 |
|-----------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----|------|
| EN 50566:2017         | 유/무선 통신기기 | Product Standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz:hand-held and body mounted devices in close proximity to the human body            | 100 MHz ~ 6 GHz | 소재지 | N    |
| EN 50566:2017+A1:2023 | 유/무선 통신기기 | Product Standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz:hand-held and body mounted devices in close proximity to the human body            | 100 MHz ~ 6 GHz | 소재지 | N    |
| EN 50663:2017         | 유/무선 통신기기 | Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)                                                                                                                                                     | 10 MHz ~ 40 GHz | 소재지 | N    |
| EN 62209-1:2006       | 유/무선 통신기기 | Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 1:Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz) | 100 MHz ~ 6 GHz | 소재지 | N    |

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| 규격번호                    | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                                         | 시험범위            | 사업장 | 현장시험 |
|-------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----|------|
| EN 62209-1:2016         | 유/무선 통신기기 | Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz)                                                                                | 100 MHz ~ 6 GHz | 소재지 | N    |
| EN 62209-2:2010         | 유/무선 통신기기 | Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz) | 100 MHz ~ 6 GHz | 소재지 | N    |
| EN 62209-2:2010/A1:2019 | 유/무선 통신기기 | Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz) | 100 MHz ~ 6 GHz | 소재지 | N    |
| EN 62232:2017           | 유/무선 통신기기 | DETERMINATION OF RF FIELD STRENGTH, POWER DENSITY AND SAR IN THE VICINITY OF RADIOCOMMUNICATION BASE STATIONS FOR THE PURPOSE OF EVALUATING HUMAN EXPOSURE                                                                                                                                                                                  | 100 MHz ~ 6 GHz | 소재지 | N    |

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제 KT197호

| 규격번호                        | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                             | 시험범위            | 사업장 | 현장시험 |
|-----------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----|------|
| EN 62311:2008               | 유/무선 통신기기 | Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz ~ 300 GHz)                                                                                                                                            | 0Hz ~ 40 GHz    | 소재지 | N    |
| EN 62311:2020               | 유/무선 통신기기 | Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz)                                                                                                                                           | 0 Hz ~ 40 GHz   | 소재지 | N    |
| EN 62479:2010               | 유/무선 통신기기 | Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)                                                                                               | 10 MHz ~ 40 GHz | 소재지 | N    |
| EN IEC/IEEE 62209-1528:2021 | 유/무선 통신기기 | Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz) | 100 MHz ~ 6 GHz | 소재지 | N    |
| EN IEC/IEEE 63195-1:2023    | 유/무선 통신기기 | Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz) - Part 1: Measurement procedure                                                                     | 6 GHz ~ 110 GHz | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                   | 시험범위           | 사업장 | 현장시험 |
|-------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|------|
| ETSI EN 300 220-1 V2.3.1:2010 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 1:Technical characteristics and test methods                                            | 25 MHz ~ 6 GHz | 소재지 | N    |
| ETSI EN 300 220-1 V2.4.1:2012 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 1:Technical characteristics and test methods                                            | 25 MHz ~ 6 GHz | 소재지 | N    |
| ETSI EN 300 220-1 V3.1.1:2017 | 유/무선 통신기기 | Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 1:Technical characteristics and methods of measurement                                                                                                                                                           | 25 MHz ~ 6 GHz | 소재지 | N    |
| ETSI EN 300 220-2 V2.3.1:2010 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD);Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 2:Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive | 25 MHz ~ 6 GHz | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                     | 시험범위               | 사업장 | 현장시험 |
|-------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|------|
| ETSI EN 300 220-2 V2.4.1:2012 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive | 25 MHz ~ 6 GHz     | 소재지 | N    |
| ETSI EN 300 220-2 V3.1.1:2017 | 유/무선 통신기기 | Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 2: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU for non specific radio equipment                                                                                 | 25 MHz ~ 6 GHz     | 소재지 | N    |
| ETSI EN 300 220-2 V3.2.1:2018 | 유/무선 통신기기 | Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 2: Harmonised Standard for access to radio spectrum for non specific radio equipment                                                                                                                               | 25 MHz ~ 6 GHz     | 소재지 | N    |
| ETSI EN 300 328 V1.7.1:2006   | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive          | 30 MHz ~ 12.75 GHz | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                        | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                         | 시험범위               | 사업장 | 현장시험 |
|-----------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|------|
| ETSI EN 300 328 V1.8.1:2012 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive | 30 MHz ~ 12.75 GHz | 소재지 | N    |
| ETSI EN 300 328 V1.9.1:2015 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements of article 3.2 of the R&TTE Directive | 30 MHz ~ 12.75 GHz | 소재지 | N    |
| ETSI EN 300 328 V2.1.1:2016 | 유/무선 통신기기 | Wideband transmission systems; Data transmission equipment operating in the 2.4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU                                                      | 30 MHz ~ 12.75 GHz | 소재지 | N    |
| ETSI EN 300 328 V2.2.2:2019 | 유/무선 통신기기 | Wideband transmission systems; Data Transmission equipment operating in the 2.4 GHz band; Harmonised Standard for access to radio spectrum                                                                                                                                                  | 30 MHz ~ 12.75 GHz | 소재지 | N    |

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제 KT197호

| 규격번호                          | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                 | 시험범위              | 사업장 | 현장시험 |
|-------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----|------|
| ETSI EN 300 330 V2.1.1:2017   | 유/무선 통신기기 | Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU                                                                 | 9 kHz ~ 1 000 MHz | 소재지 | N    |
| ETSI EN 300 330-1 V1.7.1:2010 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 1:Technical characteristics and test methods                                              | 9 kHz ~ 1 000 MHz | 소재지 | N    |
| ETSI EN 300 330-1 V1.8.1:2015 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 1:Technical characteristics and test methods                                              | 9 kHz ~ 1 000 MHz | 소재지 | N    |
| ETSI EN 300 330-2 V1.5.1:2010 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 2:Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive | 9 kHz ~ 1 000 MHz | 소재지 | N    |

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제 KT197호

| 규격번호                             | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                  | 시험범위              | 사업장 | 현장시험 |
|----------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----|------|
| ETSI EN 300 330-2<br>V1.6.1:2015 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive | 9 kHz ~ 1 000 MHz | 소재지 | N    |
| ETSI EN 300 440<br>V2.1.1:2017   | 유/무선 통신기기 | Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU                                                                                                                         | 25 MHz ~ 66 GHz   | 소재지 | N    |
| ETSI EN 300 440-1<br>V1.6.1:2010 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short range devices; Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 1: Technical characteristics and test methods                                                                                                           | 25 MHz ~ 40 GHz   | 소재지 | N    |
| ETSI EN 300 440-2<br>V1.4.1:2010 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short range devices; Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive                                                              | 25 MHz ~ 40 GHz   | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                             | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                       | 시험범위                | 사업장 | 현장시험 |
|----------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----|------|
| ETSI EN 301 091-1<br>V2.1.1 2017 | 유/무선 통신기기 | Short Range Devices; Transport and Traffic Telematics (TTT); Radar equipment operating in the 76 GHz to 77 GHz range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 1:Ground based vehicular radar | 30 MHz ~ 154 GHz    | 소재지 | N    |
| ETSI EN 301 406<br>V2.2.2:2016   | 유/무선 통신기기 | Digital Enhanced Cordless Telecommunications (DECT); Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU                                                                                                   | 30 MHz ~ 12.75 GHz  | 소재지 | N    |
| ETSI EN 301 502<br>V10.2.1:2012  | 유/무선 통신기기 | Global System for Mobile communications (GSM); Harmonized EN for Base Station Equipment covering the essential requirements of article 3.2 of the R&TTE Directive                                                                                         | 100 kHz ~ 12.75 GHz | 소재지 | N    |
| ETSI EN 301 502<br>V12.5.2:2017  | 유/무선 통신기기 | Global System for Mobile communications (GSM); Base Station (BS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU                                                                                | 100 kHz ~ 12.75 GHz | 소재지 | N    |
| ETSI EN 301 511<br>V12.5.1:2017  | 유/무선 통신기기 | Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU                                                                             | 9 kHz ~ 12.75 GHz   | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                           | 제품 및 물질   | 규격명                                                                                                                                                                                                     | 시험범위              | 사업장 | 현장시험 |
|--------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----|------|
| ETSI EN 301 511<br>V9.0.2:2003 | 유/무선 통신기기 | Global System for Mobile communications (GSM); Harmonized EN for mobile stations in the GSM 900 and GSM 1800 bands covering essential requirements under article 3.2 of the R&TTE directive (1999/5/EC) | 9 kHz ~ 12.75 GHz | 소재지 | N    |
| ETSI EN 301 893<br>V1.6.1:2011 | 유/무선 통신기기 | Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive                                            | 30 MHz ~ 26 GHz   | 소재지 | N    |
| ETSI EN 301 893<br>V1.7.1:2012 | 유/무선 통신기기 | Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive                                            | 30 MHz ~ 26 GHz   | 소재지 | N    |
| ETSI EN 301 893<br>V1.8.1:2015 | 유/무선 통신기기 | Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive                                            | 30 MHz ~ 26 GHz   | 소재지 | N    |
| ETSI EN 301 893<br>V2.1.1:2017 | 유/무선 통신기기 | 5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU                                                                                              | 30 MHz ~ 26 GHz   | 소재지 | N    |
| ETSI EN 301 893<br>V2.2.1:2024 | 유/무선 통신기기 | 5 GHz WAS/RLAN; Harmonised Standard for access to radio spectrum                                                                                                                                        | 30 MHz ~ 26 GHz   | 소재지 | N    |

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| 규격번호                            | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                      | 시험범위                  | 사업장 | 현장시험 |
|---------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----|------|
| ETSI EN 301 908-1 V11.1.1:2016  | 유/무선 통신기기 | IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 1: Introduction and common requirements                                                                                  | 30 MHz ~ 12.75 GHz    | 소재지 | N    |
| ETSI EN 301 908-1 V13.1.1:2019  | 유/무선 통신기기 | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements                                                                                                                                    | 30 MHz ~ 12.75 GHz    | 소재지 | N    |
| ETSI EN 301 908-1 V15.1.1:2021  | 유/무선 통신기기 | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements                                                                                                                                    | 30 MHz ~ 12.75 GHz    | 소재지 | N    |
| ETSI EN 301 908-1 V15.2.1:2023  | 유/무선 통신기기 | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements; Release 15                                                                                                                        | RSE : 30 MHz ~ 26 GHz | 소재지 | N    |
| ETSI EN 301 908-1 V7.1.1:2015   | 유/무선 통신기기 | IMT cellular networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; Part 1: Introduction and common requirements                                                                                             | 30 MHz ~ 12.75 GHz    | 소재지 | N    |
| ETSI EN 301 908-11 V11.1.2:2017 | 유/무선 통신기기 | Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 11: CDMA Direct Spread (UTRA FDD) Repeaters | 9 kHz ~ 12.75 GHz     | 소재지 | N    |

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| 규격번호                            | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                      | 시험범위              | 사업장    | 현장시험 |
|---------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------|------|
| ETSI EN 301 908-11 V5.2.1:2011  | 유/무선 통신기기 | IMT cellular networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; Part 11:CDMA Direct Spread (UTRA FDD) (Repeaters)                                                                                        | 9 kHz ~ 12.75 GHz | 소재지    | N    |
| ETSI EN 301 908-13 V13.3.1:2024 | 유/무선 통신기기 | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE) 4.2.13 Receiver Total Radiated Sensitivity (TRS) 4.2.14 Total Radiated Power (TRP)             | 600 MHz ~ 6 GHz   | 부속시설-3 | N    |
| ETSI EN 301 908-13 V13.3.1:2024 | 유/무선 통신기기 | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE) [Exception] 4.2.13 Receiver Total Radiated Sensitivity (TRS) 4.2.14 Total Radiated Power (TRP) | 9 kHz ~ 26.5 GHz  | 소재지    | N    |
| ETSI EN 301 908-14 V15.1.1:2021 | 유/무선 통신기기 | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 14: Evolved Universal Terrestrial Radio Access (E-UTRA) Base Stations (BS) Release 15                                                                                      | 9 kHz ~ 26.5 GHz  | 소재지    | N    |
| ETSI EN 301 908-15 V11.1.2:2017 | 유/무선 통신기기 | IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 15:Evolved Universal Terrestrial Radio Access (E-UTRA FDD) Repeaters                                                         | 9 kHz ~ 12.75 GHz | 소재지    | N    |

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제 KT197호

| 규격번호                            | 제품 및 물질   | 규격명                                                                                                                                                                                                                                        | 시험범위              | 사업장    | 현장시험 |
|---------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------|------|
| ETSI EN 301 908-15 V15.1.1:2020 | 유/무선 통신기기 | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) Repeaters                                                                                        | 9 kHz ~ 12.75 GHz | 소재지    | N    |
| ETSI EN 301 908-15 V5.2.1:2011  | 유/무선 통신기기 | IMT cellular networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; Part 15: Evolved Universal Terrestrial Radio Access (E-UTRA FDD) (Repeaters)                                               | 9 kHz ~ 12.75 GHz | 소재지    | N    |
| ETSI EN 301 908-18 V15.1.1:2021 | 유/무선 통신기기 | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 18: E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Station (BS) Release 15                                                                        | 9 kHz ~ 26.5 GHz  | 소재지    | N    |
| ETSI EN 301 908-2 V13.1.1:2020  | 유/무선 통신기기 | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)<br>4.2.14 Receiver Total Radiated Sensitivity (TRS)<br>4.2.15 Total Radiated Power (TRP)                | 600 MHz ~ 6 GHz   | 부속시설-3 | N    |
| ETSI EN 301 908-2 V13.1.1:2020  | 유/무선 통신기기 | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)<br>[Exception]<br>4.2.14 Receiver Total Radiated Sensitivity (TRS)<br>4.2.15 Total Radiated Power (TRP) | 9 kHz ~ 26.5 GHz  | 소재지    | N    |

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제 KT197호

| 규격번호                            | 제품 및 물질   | 규격명                                                                                                                                                                                       | 시험범위              | 사업장 | 현장시험 |
|---------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----|------|
| ETSI EN 301 908-20 V6.2.1:2013  | 유/무선 통신기기 | IMT cellular networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; Part 20: OFDMA TDD WMAN (Mobile WiMAX) TDD Base Stations (BS)             | 9 kHz ~ 26.5 GHz  | 소재지 | N    |
| ETSI EN 301 908-20 V6.3.1:2016  | 유/무선 통신기기 | IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 20: OFDMA TDD WMAN (Mobile WiMAX™) TDD Base Stations (BS) | 9 kHz ~ 26.5 GHz  | 소재지 | N    |
| ETSI EN 301 908-22 V5.2.1:2011  | 유/무선 통신기기 | IMT cellular networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; Part 22: OFDMA TDD WMAN (Mobile WiMAX) FDD Base Stations (BS)             | 9 kHz ~ 12.75 GHz | 소재지 | N    |
| ETSI EN 301 908-22 V6.1.1:2016  | 유/무선 통신기기 | IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 22: OFDMA TDD WMAN (Mobile WiMAX™) FDD Base Stations (BS) | 9 kHz ~ 12.75 GHz | 소재지 | N    |
| ETSI EN 301 908-24 V15.1.1:2023 | 유/무선 통신기기 | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 24: New Radio (NR) Base Stations (BS) Release 15                                                            | 9 kHz ~ 60 GHz    | 소재지 | N    |
| ETSI EN 301 908-3 V11.1.3:2017  | 유/무선 통신기기 | IMT cellular networks; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS)           | 9 kHz ~ 26.5 GHz  | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                              | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                | 시험범위             | 사업장 | 현장시험 |
|-----------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----|------|
| ETSI EN 301 908-3<br>V13.1.1:2019 | 유/무선 통신기기 | IMT cellular networks;<br>Harmonised Standard<br>for access to radio<br>spectrum; Part 3:CDMA<br>Direct Spread (UTRA<br>FDD) Base Stations (BS)                                                                                                                                    | 9 kHz ~ 26.5 GHz | 소재지 | N    |
| ETSI EN 301 908-3<br>V6.2.1:2013  | 유/무선 통신기기 | IMT cellular networks;<br>Harmonized EN<br>covering the essential<br>requirements of article<br>3.2 of the R&TTE<br>Directive; Part 3:CDMA<br>Direct Spread (UTRA<br>FDD) Base Stations (BS)                                                                                       | 9 kHz ~26.5 GHz  | 소재지 | N    |
| ETSI EN 302 065-1<br>V2.1.1:2016  | 유/무선 통신기기 | Short Range Devices<br>(SRD) using Ultra Wide<br>Band technology (UWB);<br>Harmonised Standard<br>covering the essential<br>requirements of article<br>3.2 of the Directive<br>2014/53/EU; Part<br>1:Requirements for<br>Generic UWB<br>applications                               | 30 MHz ~ 40 GHz  | 소재지 | N    |
| ETSI EN 302 065-2<br>V2.1.1:2016  | 유/무선 통신기기 | Short Range Devices<br>(SRD) using Ultra Wide<br>Band technology (UWB);<br>Harmonised Standard<br>covering the essential<br>requirements of article<br>3.2 of the Directive<br>2014/53/EU; Part<br>2:Requirements for<br>UWB location tracking                                     | 30 MHz ~ 40 GHz  | 소재지 | N    |
| ETSI EN 302 065-3<br>V2.1.1:2016  | 유/무선 통신기기 | Short Range Devices<br>(SRD) using Ultra Wide<br>Band technology (UWB);<br>Harmonised Standard<br>covering the essential<br>requirements of article<br>3.2 of the Directive<br>2014/53/EU; Part<br>3:Requirements for<br>UWB devices for ground<br>based vehicular<br>applications | 30 MHz ~ 40 GHz  | 소재지 | N    |

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제 KT197호

| 규격번호                             | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                              | 시험범위               | 사업장 | 현장시험 |
|----------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|------|
| ETSI EN 302 065-4<br>V1.1.1:2016 | 유/무선 통신기기 | Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU; Part 4:Material Sensing devices using UWB technology below 10,6 GHz                                        | 30 MHz ~ 40 GHz    | 소재지 | N    |
| ETSI EN 302 065-5<br>V1.1.1:2017 | 유/무선 통신기기 | Short Range Devices (SRD) using Ultra Wide Band technology (UWB); Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Part 5:Devices using UWB technology onboard aircraft                                                           | 30 MHz ~ 40 GHz    | 소재지 | N    |
| ETSI EN 302 208<br>V3.1.1:2016   | 유/무선 통신기기 | Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU | 25 MHz ~ 12.75 GHz | 소재지 | N    |
| ETSI EN 302 208<br>V3.3.1:2020   | 유/무선 통신기기 | Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W; Harmonised Standard for access to radio spectrum                                                   | 30 MHz ~ 12.75 GHz | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                             | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                            | 시험범위               | 사업장 | 현장시험 |
|----------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|------|
| ETSI EN 302 208-1<br>V1.4.1:2011 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W; Part 1: Technical requirements and methods of measurement                                       | 25 MHz ~ 12.75 GHz | 소재지 | N    |
| ETSI EN 302 208-2<br>V1.4.1:2011 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive | 25 MHz ~ 12.75 GHz | 소재지 | N    |
| ETSI EN 302 264<br>V2.1.1:2017   | 유/무선 통신기기 | Short Range Devices; Transport and Traffic Telematics (TTT); Short Range Radar equipment operating in the 77 GHz to 81 GHz band; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU                                                | 30 MHz ~ 162 GHz   | 소재지 | N    |
| ETSI EN 302 288<br>V2.1.1:2017   | 유/무선 통신기기 | Short Range Devices; Transport and Traffic Telematics (TTT); Ultra-wideband radar equipment operating in the 24,25 GHz to 26,65 GHz range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 014/53/EU                                       | 30 MHz ~ 50 GHz    | 소재지 | N    |

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| 규격번호                             | 제품 및 물질   | 규격명                                                                                                                                                                                                                                  | 시험범위             | 사업장 | 현장시험 |
|----------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----|------|
| ETSI EN 302 291-1<br>V1.1.1:2005 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Close Range Inductive Data Communication equipment operating at 13.56 MHz; Part 1: Technical characteristics and test methods             | 9 kHz ~ 1 GHz    | 소재지 | N    |
| ETSI EN 302 291-2<br>V1.1.1:2005 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Close Range Inductive Data Communication equipment operating at 13.56 MHz; Part 2: Harmonized EN under article 3.2 of the R&TTE Directive | 9 kHz ~ 1 GHz    | 소재지 | N    |
| ETSI EN 302 502<br>V1.2.1:2008   | 유/무선 통신기기 | Broadband Radio Access Networks (BRAN); 5.8 GHz fixed Broadband data transmitting systems; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive                                                   | 9 kHz ~ 26.5 GHz | 소재지 | N    |
| ETSI EN 302 502<br>V2.1.1:2017   | 유/무선 통신기기 | Wireless Access Systems (WAS); 5,8 GHz fixed broadband data transmitting systems; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU                                                     | 9 kHz ~ 26.5 GHz | 소재지 | N    |
| ETSI EN 302 567<br>V2.2.1:2021   | 유/무선 통신기기 | Multiple-Gigabit/s radio equipment operating in the 60 GHz band                                                                                                                                                                      | 30 MHz ~ 142 GHz | 소재지 | N    |

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제 KT197호

| 규격번호                             | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                      | 시험범위                                | 사업장 | 현장시험 |
|----------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----|------|
| ETSI EN 302 858<br>V2.1.1:2016   | 유/무선 통신기기 | Short Range Devices; Transport and Traffic Telematics (TTT); Radar equipment operating in the 24,05 GHz to 24,25 GHz or 24,05 GHz to 24,50 GHz range; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU | 30 MHz ~ 50 GHz                     | 소재지 | N    |
| ETSI EN 303 340<br>V1.2.1:2020   | 유/무선 통신기기 | Digital Terrestrial TV Broadcast Receivers; Harmonised Standard for access to radio spectrum                                                                                                                                                             | (174 ~ 240) MHz,<br>(470 ~ 854) MHz | 소재지 | N    |
| ETSI EN 303 345-1<br>V1.1.1:2019 | 유/무선 통신기기 | Broadcast Sound Receivers; Part 1:Generic requirements and measuring methods                                                                                                                                                                             | 148.5 kHz ~ 240 MHz                 | 소재지 | N    |
| ETSI EN 303 345-2<br>V1.2.1:2021 | 유/무선 통신기기 | Broadcast Sound Receivers; Part 2:AM broadcast sound service; Harmonised Standard for access to radio spectrum                                                                                                                                           | 148.5 kHz ~26.1 MHz                 | 소재지 | N    |
| ETSI EN 303 345-3<br>V1.1.1:2021 | 유/무선 통신기기 | Broadcast Sound Receivers; Part 3:FM broadcast sound service; Harmonised Standard for access to radio spectrum                                                                                                                                           | 87.5 ~ 108 MHz                      | 소재지 | N    |
| ETSI EN 303 345-4<br>V1.1.1:2021 | 유/무선 통신기기 | Broadcast Sound Receivers; Part 4:DAB broadcast sound service; Harmonised Standard for access to radio spectrum                                                                                                                                          | 174 ~ 240 MHz                       | 소재지 | N    |
| ETSI EN 303 345-5<br>V1.2.1:2021 | 유/무선 통신기기 | Broadcast Sound Receivers; Part 5:DRM broadcast sound service; Harmonised Standard for access to radio spectrum                                                                                                                                          | 148.5 kHz ~ 240 MHz                 | 소재지 | N    |

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| 규격번호                             | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                 | 시험범위             | 사업장 | 현장시험 |
|----------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----|------|
| ETSI EN 303 360<br>V1.1.1:2017   | 유/무선 통신기기 | Short Range Devices; Transport and Traffic Telematics (TTT); Radar equipment operating in the 76 GHz to 77 GHz range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Obstacle Detection Radars for Use on Manned Rotorcraft                        | 30 MHz ~ 154 GHz | 소재지 | N    |
| ETSI EN 303 372-2<br>V1.2.1:2021 | 유/무선 통신기기 | Satellite Earth Stations and Systems (SES); Satellite broadcast reception equipment; Part 2: Indoor unit; Harmonised Standard for access to radio spectrum                                                                                                                                          | (950 ~2,150) MHz | 소재지 | N    |
| ETSI EN 303 396<br>V1.1.1:2016   | 유/무선 통신기기 | Short Range Devices; Measurement Techniques for Automotive and Surveillance Radar Equipment                                                                                                                                                                                                         | 30 MHz ~ 162 GHz | 소재지 | N    |
| ETSI EN 303 413<br>V1.1.1:2017   | 유/무선 통신기기 | Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU | 30 MHz ~ 8.3 GHz | 소재지 | N    |
| ETSI EN 303 413<br>V1.2.1:2021   | 유/무선 통신기기 | Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard for access to radio spectrum                                               | 30 MHz ~ 8.3 GHz | 소재지 | N    |

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| 규격번호                             | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                             | 시험범위              | 사업장 | 현장시험 |
|----------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----|------|
| ETSI EN 303 417<br>V1.1.1:2017   | 유/무선 통신기기 | Wireless power transmission systems, using technologies other than radio frequency beam in the 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz ranges                                                                                   | 9 kHz ~ 1 GHz     | 소재지 | N    |
| ETSI EN 303 609<br>V12.5.1:2016  | 유/무선 통신기기 | Global System for Mobile communications (GSM); GSM Repeaters; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU                                                                                                | 9 kHz ~ 12.75 GHz | 소재지 | N    |
| ETSI EN 303 687<br>V1.1.1:2023   | 유/무선 통신기기 | 6 GHz WAS/RLAN; Harmonised Standard for access to radio spectrum                                                                                                                                                                                                | 30 MHz ~ 26 GHz   | 소재지 | N    |
| ETSI EN 303 883<br>V1.1.1:2016   | 유/무선 통신기기 | Short Range Devices (SRD) using Ultra Wide Band (UWB); Measurement Techniques                                                                                                                                                                                   | 30 MHz ~ 40 GHz   | 소재지 | N    |
| ETSI EN 305 550-1<br>V1.2.1:2014 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 40 GHz to 246 GHz frequency range; Part 1: Technical characteristics and test methods                                              | 30 MHz ~ 128 GHz  | 소재지 | N    |
| ETSI EN 305 550-2<br>V1.2.1:2014 | 유/무선 통신기기 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 40 GHz to 246 GHz frequency range; Part 2: Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive | 30 MHz ~ 128 GHz  | 소재지 | N    |

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| 규격번호                             | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                       | 시험범위                                                                                                                                                                                             | 사업장 | 현장시험 |
|----------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| ETSI ES 203 021-1<br>V2.1.1:2005 | 유/무선 통신기기 | Access and Terminals (AT);<br>Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks;<br>Update of the technical contents of TBR 021, EN 301 437, TBR 015, TBR 017;<br>Part 1: General aspects                                            | Loop feed channel output 전압:DC:110 V 이하<br>전류제한:200 mA 이하<br>전압분해능:30 mV<br>전압정확도:200 mV<br>극성변환시간:0.2 ms 미만<br>직렬저항:300 kΩ 이하<br>Ring generator Output 전압:AC:(0 ~ 150) V<br>주파수범위:(15 ~ 100) Hz | 소재지 | N    |
| ETSI ES 203 021-2<br>V2.1.2:2006 | 유/무선 통신기기 | Access and Terminals (AT);<br>Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks;<br>Update of the technical contents of TBR 021, EN 301 437, TBR 015, TBR 017;<br>Part 2: Basic transmission and protection of The network from harm | Loop feed channel output 전압:DC:110 V 이하<br>전류제한:200 mA 이하<br>전압분해능:30 mV<br>전압정확도:200 mV<br>극성변환시간:0.2 ms 미만<br>직렬저항:300 kΩ 이하<br>Ring generator Output 전압:AC:(0 ~ 150) V<br>주파수범위:(15 ~ 100) Hz | 소재지 | N    |
| ETSI ES 203 021-3<br>V2.1.2:2006 | 유/무선 통신기기 | Part 3:Basic Interworking with the Public Telephone Networks                                                                                                                                                                                                                                              | Loop feed channel output 전압:DC:110 V 이하<br>전류제한:200 mA 이하<br>전압분해능:30 mV<br>전압정확도:200 mV<br>극성변환시간:0.2 ms 미만<br>직렬저항:300 kΩ 이하<br>Ring generator Output 전압:AC:(0 ~ 150) V<br>주파수범위:(15 ~ 100) Hz | 소재지 | N    |
| ETSI ES 203 038<br>V1.2.1:2013   | 유/무선 통신기기 | Speech and multimedia Transmission Quality (STQ); Requirements and tests methods for terminal equipment incorporating a handset when connected to the analogue interface of the PSTN                                                                                                                      | SPL:100dB 이하<br>주파수범위:100 Hz ~ 8 kHz<br>출력임피던스:4 Ω<br>출력레벨:10 W 이하<br>입력임피던스:1 kΩ                                                                                                                | 소재지 | N    |

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| 규격번호                                    | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                              | 시험범위                                                     | 사업장 | 현장시험 |
|-----------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----|------|
| ETSI TBR3<br>A1:1997                    | 유/무선 통신기기 | Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN basic access                                                                                                                                                                                         | 부하임피던스: 50 Ω, 400 Ω<br>주파수범위: 100 Hz ~ 10 MHz            | 소재지 | N    |
| ETSI TBR4<br>A1:1997                    | 유/무선 통신기기 | Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN primary rate access                                                                                                                                                                                  | 입력임피던스: 120 Ω<br>부하임피던스: 120 Ω<br>주파수범위: (51 ~ 3 072) Hz | 소재지 | N    |
| ETSI TS 136 141<br>V15.21.0 (2025-01)   | 유/무선 통신기기 | LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing (3GPP TS 36.141 version 15.21.0 Release 15)<br>[Exception]<br>Clauses 6.3, 6.3.2, 6.4, 6.5, 7.3, 7.4, 8                                                                                                                          | 9 kHz ~ 26.5 GHz                                         | 소재지 | N    |
| ETSI TS 137 141<br>V16.21.0 (2024-05)   | 유/무선 통신기기 | Digital cellular telecommunications system (Phase 2+) (GSM); Universal Mobile Telecommunications System (UMTS); LTE; 5G; NR, E-UTRA, UTRA and GSM/EDGE; Multi-Standard Radio (MSR) Base Station (BS) conformance testing (3GPP TS 37.141 version 16.21.0 Release 16)<br>[Exception]<br>Clauses 6.3, 6.4, 6.5, 6.6.3, 7.3, 7.8, 8 | 9 kHz ~ 26.5 GHz                                         | 소재지 | N    |
| ETSI TS 137 145-1<br>V16.16.0 (2025-04) | 유/무선 통신기기 | Universal Mobile Telecommunications System (UMTS); LTE; 5G; Active Antenna System (AAS) Base Station (BS) conformance testing; Part 1: conducted conformance testing (3GPP TS 37.145-1 version 16.16.0 Release 16)<br>[Exception]<br>Clauses 6.3, 6.4, 6.5, 7.3, 7.8, 8                                                          | 9 kHz ~ 26.5 GHz                                         | 소재지 | N    |

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| 규격번호                                    | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                       | 시험범위                | 사업장 | 현장시험 |
|-----------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----|------|
| ETSI TS 137 145-2<br>V16.19.0 (2024-10) | 유/무선 통신기기 | Universal Mobile Telecommunications System (UMTS); LTE; 5G; Active Antenna System (AAS) Base Station (BS) conformance testing; Part 2: radiated conformance testing (3GPP TS 37.145-2 version 16.19.0 Release 16)<br>[Exception]<br>Clauses 6.3, 6.4, 6.5, 6.7, 6.8, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8 | 9 kHz ~ 26.5 GHz    | 소재지 | N    |
| ETSI TS 138 141-1<br>V16.20.0 (2025-01) | 유/무선 통신기기 | 5G; NR; Base Station (BS) conformance testing Part 1: Conducted conformance testing (3GPP TS 38.141-1 version 16.20.0 Release 16)<br>[Exception]<br>Clauses 6.3, 6.4, 6.5, 7.3, 7.8, 8                                                                                                                    | 9 kHz ~ 26.5 GHz    | 소재지 | N    |
| ETSI TS 138 141-2<br>V16.20.0 (2025-04) | 유/무선 통신기기 | 5G; NR; Base Station (BS) conformance testing Part 2: Radiated conformance testing (3GPP TS 38.141-2 version 16.20.0 Release 16)<br>[Exception]<br>Clauses 6.4, 6.5, 6.6, 6.7.2, 7.4, 7.9, 8                                                                                                              | 30 MHz ~ 60 GHz     | 소재지 | N    |
| ETSI TS 145 005<br>V17.0.0:2022         | 유/무선 통신기기 | Digital cellular telecommunications system (Phase 2+) (GSM); GSM/EDGE Radio transmission and reception (3GPP TS 45.005 version 17.0.0 Release 17)<br>[Exception]<br>Clauses 4.1.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 5, 6                                                                                     | 100 kHz ~ 12.75 GHz | 소재지 | N    |

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| 규격번호                            | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                 | 시험범위                | 사업장 | 현장시험 |
|---------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----|------|
| ETSI TS 151 021<br>V17.0.0:2022 | 유/무선 통신기기 | Digital cellular telecommunications system (Phase 2+) (GSM); Base Station System (BSS) equipment specification; Radio aspects (3GPP TS 51.021 version 17.0.0 Release 17)<br>[Exception]<br>Clauses 6.1, 6.2, 6.4, 6.9, 6.10, 6.11, 7.1, 7.2, 7.4, 9 | 100 kHz ~ 12.75 GHz | 소재지 | N    |
| FCC Part 101:2019               | 유/무선 통신기기 | FIXED MICROWAVE SERVICES                                                                                                                                                                                                                            | 9 kHz - 325 GHz     | 소재지 | N    |
| FCC Part 15:2018 subpart C      | 유/무선 통신기기 | Intentional Radiators                                                                                                                                                                                                                               | 9 kHz ~ 243 GHz     | 소재지 | N    |
| FCC Part 15:2018 subpart E      | 유/무선 통신기기 | Unlicensed National Information Infrastructure Devices                                                                                                                                                                                              | 9 kHz ~ 40 GHz      | 소재지 | N    |
| FCC Part 15F:2019               | 유/무선 통신기기 | ULTRA-WIDEBAND OPERATION                                                                                                                                                                                                                            | 9 kHz - 200 GHz     | 소재지 | N    |
| FCC Part 15H:2019               | 유/무선 통신기기 | WHITE SPACE DEVICES                                                                                                                                                                                                                                 | 9 kHz - 7 GHz       | 소재지 | N    |
| FCC Part 2.1046:2018            | 유/무선 통신기기 | Measurements required: RF power output                                                                                                                                                                                                              | 9 kHz ~ 40 GHz      | 소재지 | N    |
| FCC Part 2.1049:2018            | 유/무선 통신기기 | Measurements required: Occupied bandwidth                                                                                                                                                                                                           | 9 kHz ~ 40 GHz      | 소재지 | N    |
| FCC Part 2.1051:2018            | 유/무선 통신기기 | Measurements required: Spurious emissions at antenna terminals                                                                                                                                                                                      | 9 kHz ~ 40 GHz      | 소재지 | N    |
| FCC Part 2.1053:2018            | 유/무선 통신기기 | Measurements required: Field strength of spurious radiation                                                                                                                                                                                         | 9 kHz ~ 40 GHz      | 소재지 | N    |
| FCC Part 2.1055:2018            | 유/무선 통신기기 | Measurements required: Frequency stability                                                                                                                                                                                                          | 9 kHz ~ 40 GHz      | 소재지 | N    |
| FCC Part 2.1091:2018            | 유/무선 통신기기 | Radio frequency radiation exposure evaluation; mobile devices                                                                                                                                                                                       | 10 MHz ~ 40 GHz     | 소재지 | N    |
| FCC Part 2.1093:2018            | 유/무선 통신기기 | Radio frequency radiation exposure evaluation; portable devices                                                                                                                                                                                     | 3 kHz ~ 40 GHz      | 소재지 | N    |

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| 규격번호                           | 제품 및 물질   | 규격명                                                                                                                                  | 시험범위                                                 | 사업장 | 현장시험 |
|--------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-----|------|
| FCC Part 20.19:2006            | 유/무선 통신기기 | Hearing aid - compatible mobile handsets [exception] (g) Enforcement                                                                 | H Field:10 mA/m ~ 2 A/m<br>E Field:2 V/m ~ 1 000 V/m | 소재지 | N    |
| FCC Part 20.21:2019            | 유/무선 통신기기 | Signal Boosters                                                                                                                      | 9 kHz - 40 GHz                                       | 소재지 | N    |
| FCC Part 22:2018               | 유/무선 통신기기 | Public mobile services                                                                                                               | 9 kHz ~ 26.5 GHz                                     | 소재지 | N    |
| FCC Part 24:2018               | 유/무선 통신기기 | Personal communications services                                                                                                     | 9 kHz ~ 26.5 GHz                                     | 소재지 | N    |
| FCC Part 25:2019               | 유/무선 통신기기 | SATELLITE COMMUNICATIONS                                                                                                             | 9 kHz - 100 GHz                                      | 소재지 | N    |
| FCC Part 27:2018               | 유/무선 통신기기 | Miscellaneous Wireless Communications Services                                                                                       | 9 kHz ~ 26.5 GHz                                     | 소재지 | N    |
| FCC Part 30:2019               | 유/무선 통신기기 | UPPER MICROWAVE FLEXIBLE USE SERVICE                                                                                                 | 9 kHz - 325 GHz                                      | 소재지 | N    |
| FCC Part 68 (TIA-968-B-3):2016 | 유/무선 통신기기 | Telecommunications Telephone Terminal Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network | 입력임피던스:600 Ω<br>주파수범위:100 Hz ~ 10 MHz                | 소재지 | N    |
| FCC Part 74:2019               | 유/무선 통신기기 | EXPERIMENTAL RADIO, AUXILIARY, SPECIAL BROADCAST AND OTHER PROGRAM DISTRIBUTIONAL SERVICES                                           | 9 kHz - 100 GHz                                      | 소재지 | N    |
| FCC Part 90:2018               | 유/무선 통신기기 | Private Land Mobile Radio Services                                                                                                   | 9 kHz ~26.5 GHz                                      | 소재지 | N    |
| FCC Part 95:2019               | 유/무선 통신기기 | PERSONAL RADIO SERVICES                                                                                                              | 9 kHz - 325 GHz                                      | 소재지 | N    |
| FCC Part 96:2019               | 유/무선 통신기기 | CITIZENS BROADBAND RADIO SERVICE                                                                                                     | 9 kHz - 40 GHz                                       | 소재지 | N    |

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| 규격번호                     | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                                        | 시험범위                                                                                                                                                                                             | 사업장 | 현장시험 |
|--------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| ICASA TE - 001:2006      | 유/무선 통신기기 | Standard Specification for TLTE for Connection to the Public Switched Telephone Network                                                                                                                                                                                                                                                    | Loop feed channel output 전압:DC:110 V 이하<br>전류제한:200 mA 이하<br>전압분해능:30 mV<br>전압정확도:200 mV<br>극성변환시간:0.2 ms<br>미만 직렬저항:300 kΩ 이하<br>Ring generator Output 전압:AC:(0 ~ 150) V<br>주파수범위:(15 ~ 100) Hz | 소재지 | N    |
| IEC 62209-2 Ed.1.0b:2010 | 유/무선 통신기기 | Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures Part 2:Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz) | 100 MHz ~ 6 GHz                                                                                                                                                                                  | 소재지 | N    |
| IEC PAS 63083:2017       | 유/무선 통신기기 | Specific absorption rate (SAR) measurement procedure for long term evolution (LTE) devices                                                                                                                                                                                                                                                 | 100 MHz ~ 6 GHz                                                                                                                                                                                  | 소재지 | N    |
| IEC/IEEE 63195-1:2022    | 유/무선 통신기기 | Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz) - Part 1: Measurement procedure                                                                                                                                | 6 GHz ~ 110 GHz                                                                                                                                                                                  | 소재지 | N    |
| IEEE Std1528:2003        | 유/무선 통신기기 | IEEE Recommended Practice for Determining the Peak Special Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices                                                                                                                                                                                   | 100 MHz ~ 6 GHz                                                                                                                                                                                  | 소재지 | N    |

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| 규격번호                            | 제품 및 물질   | 규격명                                                                                                                                                                              | 시험범위                                                                                                                                                                                                       | 사업장 | 현장시험 |
|---------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEEE Std1528:2013               | 유/무선 통신기기 | IEEE Recommended Practice for Determining the Peak Special Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques | 100 MHz ~ 6 GHz                                                                                                                                                                                            | 소재지 | N    |
| ISO 11904-2:2021                | 유/무선 통신기기 | Acoustics - Determination of sound immission from sound sources placed close to ear - Part 2: Technique using a manikin                                                          | 주파수범위: 100 Hz ~ 20 kHz<br>출력전압: (20 ~ 200) mV                                                                                                                                                              | 소재지 | N    |
| ONGO-TS-9001 V1.3.0             | 유/무선 통신기기 | OnGo Release 1 Certification Test Plan                                                                                                                                           | 3550 MHz ~ 3700 MHz                                                                                                                                                                                        | 소재지 | N    |
| PTC 200:2019                    | 유/무선 통신기기 | Requirements for Connection of Customer Equipment to Analogue Lines                                                                                                              | Loop feed channel output 전압: DC: 110 V 이하<br>전류제한: 200 mA 이하<br>전압분해능: 30 mV<br>전압정확도: 200 mV<br>극성변환시간: 0.2 ms 미만<br>직렬저항: 300 kΩ 이하<br>Ring generator Output 전압: AC: (0 ~ 150) V<br>주파수범위: (15 ~ 100) Hz | 소재지 | N    |
| PTC 220:2019                    | 유/무선 통신기기 | Requirements for Private Voice Networks connected to the PSTN/ISDN                                                                                                               | SPL: 100dB 이하<br>주파수범위: 100 Hz ~ 8 kHz<br>출력임피던스: 4 Ω<br>출력레벨: 10 W 이하<br>입력임피던스: 1 kΩ                                                                                                                     | 소재지 | N    |
| RSS-102 Issue 5:2015            | 유/무선 통신기기 | Radio Frequency Exposure Compliance of Radio communications Apparatus (All Frequency Bands)                                                                                      | 100 MHz ~ 40 GHz                                                                                                                                                                                           | 소재지 | N    |
| RSS-119 Issue 12 Amendment:2022 | 유/무선 통신기기 | Land Mobile and Fixed Equipment Operating in the Frequency Range 27.41-960 MHz                                                                                                   | 9 kHz ~ 10 GHz                                                                                                                                                                                             | 소재지 | N    |
| RSS-130:2019                    | 유/무선 통신기기 | Equipment Operating in the Frequency Bands 617-652 MHz, 663-698 MHz, 698-756 MHz and 777-787 MHz                                                                                 | 9 kHz - 8 GHz                                                                                                                                                                                              | 소재지 | N    |

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| 규격번호                          | 제품 및 물질   | 규격명                                                                                                                 | 시험범위             | 사업장 | 현장시험 |
|-------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------|------------------|-----|------|
| RSS-131 Issue 2:2003          | 유/무선 통신기기 | Zone Enhancers for the Land Mobile Service                                                                          | 9 kHz ~ 26.5 GHz | 소재지 | N    |
| RSS-131 Issue 4:2022          | 유/무선 통신기기 | Zone Enhancers                                                                                                      | 9 kHz ~ 40 GHz   | 소재지 | N    |
| RSS-132 Issue 4:2023          | 유/무선 통신기기 | Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz                                       | 9 kHz ~ 26.5 GHz | 소재지 | N    |
| RSS-133 Issue 7:2024          | 유/무선 통신기기 | Personal Communications Service Equipment Operating in the Bands 1850-1915 MHz and 1930-1995 MHz                    | 9 kHz ~ 26.5 GHz | 소재지 | N    |
| RSS-139 Issue4 Amendment:2022 | 유/무선 통신기기 | Advanced Wireless Services Equipment Operating in the Bands 1710 - 1755 MHz and 2110 - 2155 MHz                     | 9 kHz ~ 26.5 GHz | 소재지 | N    |
| RSS-140 Issue 1:2018          | 유/무선 통신기기 | Equipment Operating in the Public Safety Broadband Frequency Bands 758-768 MHz and 788-798 MHz                      | 9 kHz ~ 8 GHz    | 소재지 | N    |
| RSS-170 Issue 4:2022          | 유/무선 통신기기 | Mobile Earth Stations and Ancillary Terrestrial Component Equipment Operating in the Mobile-Satellite Service Bands | 9 kHz ~ 26.5 GHz | 소재지 | N    |
| RSS-192 Issue 5:2023          | 유/무선 통신기기 | Flexible Use Broadband Equipment Operating in the Band 3450-3900 MHz                                                | 9 kHz ~ 40 GHz   | 소재지 | N    |
| RSS-195 Issue 2:2014          | 유/무선 통신기기 | Wireless Communication Service (WCS) Equipment Operating in the Bands 2305-2320 MHz and 2345-2360 MHz               | 9 kHz ~ 26.5 GHz | 소재지 | N    |
| RSS-198 Issue 1:2023          | 유/무선 통신기기 | Flexible Use Broadband Equipment Operating in the Band 3900-3980 MHz                                                | 9 kHz ~ 40 GHz   | 소재지 | N    |
| RSS-199 Issue 4:2023          | 유/무선 통신기기 | Broadband Radio Service (BRS) Equipment Operating in the Band 2500-2690 MHz                                         | 9 kHz ~ 40 GHz   | 소재지 | N    |

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| 규격번호                              | 제품 및 물질   | 규격명                                                                                                                          | 시험범위                                                                                                                           | 사업장 | 현장시험 |
|-----------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----|------|
| RSS-210 Issue 11:2024             | 유/무선 통신기기 | Licence-Exempt Radio Apparatus: Category I Equipment                                                                         | 9 kHz ~ 325 GHz                                                                                                                | 소재지 | N    |
| RSS-216 Issue 3:2024              | 유/무선 통신기기 | Wireless Power Transfer Devices                                                                                              | 9 kHz ~ 200 GHz                                                                                                                | 소재지 | N    |
| RSS-220:2018                      | 유/무선 통신기기 | Devices Using Ultra-Wideband (UWB) Technology                                                                                | 9 kHz - 200 GHz                                                                                                                | 소재지 | N    |
| RSS-222 Issue 4:2024              | 유/무선 통신기기 | White Space Devices (WSDs)                                                                                                   | 9 kHz - 7 GHz                                                                                                                  | 소재지 | N    |
| RSS-247 Issue 3:2023              | 유/무선 통신기기 | Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices | 9 kHz ~ 40 GHz                                                                                                                 | 소재지 | N    |
| RSS-248 Issue 3:2024              | 유/무선 통신기기 | Radio Local Area Network (RLAN) Devices Operating in the 5925-7125 MHz Band                                                  | 9 kHz ~ 40 GHz                                                                                                                 | 소재지 | N    |
| RSS-251:2018                      | 유/무선 통신기기 | Vehicular Radar and Airport Fixed or Mobile Radar in the 76-81 GHz Frequency Band                                            | 9 kHz - 325 GHz                                                                                                                | 소재지 | N    |
| RSS-252 Issue 2:2023              | 유/무선 통신기기 | Intelligent Transportation Systems' (ITS) On-Board Units (OBUs) in the 5895-5925 MHz Band                                    | 9 kHz ~ 40 GHz                                                                                                                 | 소재지 | N    |
| RSS-GEN Issue 5:2018              | 유/무선 통신기기 | General Requirements for Compliance of Radio Apparatus                                                                       | 9 kHz ~ 40 GHz                                                                                                                 | 소재지 | N    |
| RSS-Gen Issue 5, Amendment 2:2021 | 유/무선 통신기기 | General Requirements for Compliance of Radio Apparatus                                                                       | 9 kHz ~ 200 GHz                                                                                                                | 소재지 | N    |
| SKMM MTSFB TC T001:2013           | 유/무선 통신기기 | SPECIFICATION FOR TERMINAL EQUIPMENT CONNECTING TO THE PUBLIC SWITCHED TELEPHONE NETWORK (PSTN)                              | Loop feed channel output 전압:DC:110 V 이하<br>전류제한:200 mA 이하<br>전압분해능:30 mV<br>전압정확도:200 mV<br>극성변환시간:0.2 ms 미만<br>직렬저항:300 kΩ 이하 | 소재지 | N    |

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| 규격번호                                     | 제품 및 물질   | 규격명                                                                                                                                                            | 시험범위                                     | 사업장 | 현장시험 |
|------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----|------|
| WINNF-TS-0122<br>V1.0.2                  | 유/무선 통신기기 | Test and Certification for Citizens Broadband Radio Service (CBRS); Conformance and Performance Test Technical Specification; CBSD/DP as Unit Under Test (UUT) | 3 550 Mhz ~ 3 700 Mhz                    | 소재지 | N    |
| 과학기술정보통신부 고시 제2018-1호<br>(2018.01.19.)   | 유/무선 통신기기 | 방송 공동수신설비의 설치 기준에 관한 고시                                                                                                                                        | 주파수범위:(5.75 ~ 2 150) Mhz,<br>입력임피던스:75 Ω | 소재지 | N    |
| 과학기술정보통신부 고시 제2019-4호<br>(2019.01.16.)   | 유/무선 통신기기 | 전자파 인체 보호기준                                                                                                                                                    | 30 Mhz ~ 6 GHz                           | 소재지 | N    |
| 과학기술정보통신부 고시 제2023-18호<br>(2023.06.20.)  | 유/무선 통신기기 | 신고하지 아니하고 개설했을 수 있는 무선국용 무선설비의 기술기준                                                                                                                            | 9 kHz ~ 40 GHz                           | 소재지 | N    |
| 과학기술정보통신부 고시 제2022-63호<br>(2022. 11. 9.) | 유/무선 통신기기 | 유선방송국설비 등에 관한 기술기준                                                                                                                                             | 주파수범위:(5.75 ~ 1 002) Mhz<br>입력임피던스:75 Ω  | 소재지 | N    |
| 과학기술정보통신부령 제86호<br>(2022.01.04.)         | 유/무선 통신기기 | 무선설비규칙                                                                                                                                                         | 9 kHz ~ 40 GHz                           | 소재지 | N    |
| 국립전파연구원 고시 제2018-18호<br>(2018.12.07.)    | 유/무선 통신기기 | 전자파 흡수율 측정기준                                                                                                                                                   | 100 Mhz ~ 6 GHz                          | 소재지 | N    |
| 국립전파연구원 고시 제2022-15호<br>(2022.07.29.)    | 유/무선 통신기기 | 전기통신사업용 무선설비의 기술기준                                                                                                                                             | 9 kHz ~26.5 GHz                          | 소재지 | N    |
| 국립전파연구원 고시 제2022-16호<br>(2022.9.5.)      | 유/무선 통신기기 | 단말장치 기술기준                                                                                                                                                      | 입력임피던스:600 Ω<br>주파수범위:100 Hz ~ 10 Mhz    | 소재지 | N    |
| 국립전파연구원 고시 제2022-19호<br>(2022. 10. 17.)  | 유/무선 통신기기 | 인터넷 멀티미디어 방송사업의 방송통신설비에 관한 기술기준                                                                                                                                | 입력임피던스:1 MΩ 이상<br>통단저항:(95 ~ 105) Ω      | 소재지 | N    |
| 국립전파연구원 고시 제2023-12호<br>(2023.06.30.)    | 유/무선 통신기기 | 전자파 강도 및 전자파 흡수율 측정 대상 기자재                                                                                                                                     | 30 Mhz ~ 6 GHz                           | 소재지 | N    |
| 국립전파연구원 고시 제2023-5호<br>(2023.04.03.)     | 유/무선 통신기기 | 간이무선국, 우주국, 지구국의 무선설비 및 전파탐지용 무선설비 등 그 밖의 업종용 무선설비의 기술기준                                                                                                       | 9 kHz ~26.5 GHz                          | 소재지 | N    |

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## 03. 전기시험

### 03.010 의료기기

| 규격번호                       | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                   | 시험범위                                                                                                                                                                                                                        | 사업장 | 현장 시험 |
|----------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|
| EN 60601-1-10:2008+A1:2015 | 의료기기    | Medical electrical equipment - Part 1-10:General requirements for basic safety and essential performance - Collateral Standard:Requirements for the development of physiologic closed-loop controllers                                                | -                                                                                                                                                                                                                           | 소재지 | N     |
| EN 60601-1-10:2008+A2:2021 | 의료기기    | Medical electrical equipment - Part 1-10: General requirements for basic safety and essential performance - Collateral Standard: Requirements for the development of physiologic closed-loop controllers                                              | -                                                                                                                                                                                                                           | 소재지 | N     |
| EN 60601-1-11:2015         | 의료기기    | Medical electrical equipment - Part 1-11:General requirements for basic safety and essential performance - Collateral Standard:Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment   | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H. | 소재지 | N     |
| EN 60601-1-11:2015+A2:2021 | 의료기기    | Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c./ 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H.  | 소재지 | N     |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                      | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                      | 시험범위                             | 사업장 | 현장시험 |
|---------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----|------|
| EN 60601-1-6:2010+A1:2015 | 의료기기    | Medical electrical equipment - Part 1-6:General requirements for basic safety and essential performance - Collateral standard:Usability                                                                                                                  | -                                | 소재지 | N    |
| EN 60601-1-6:2010+A2:2021 | 의료기기    | Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard:Usability                                                                                                                 | -                                | 소재지 | N    |
| EN 60601-1-8:2007+A1:2013 | 의료기기    | Medical electrical equipment - Part 1-8:General requirements for basic safety and essential performance - Collateral Standard:General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems  | Sound pressure level:Max. 140 dB | 소재지 | N    |
| EN 60601-1-8:2007+A2:2021 | 의료기기    | Medical electrical equipment - Part 1-8: General requirements for basic safety and essential performance - Collateral Standard:General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems | Sound pressure level:Max. 140 dB | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                    | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 시험범위                                                                                                                                                                                                                                                                                                                   | 사업장 | 현장시험 |
|-------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60601-1:2006+A1:2013 | 의료기기    | <p>Medical electrical equipment - Part 1:General requirements for basic safety and essential performance</p> <p>[exception]<br/>             8.8.4.2 Resistance to environmental stress - Requirements of insulating material for rubber<br/>             8.9.1.7 Material groups classification<br/>             9.5.2 Cathode ray tubes<br/>             10.3 Microwave radiation<br/>             11.2.2 ME EQUIPMENT and ME SYSTEMS used in conjunction with OXYGEN RICH ENVIRONMENTS<br/>             11.2.3 SINGLE FAULT CONDITIONS related to OXYGEN RICH ENVIRONMENTS in conjunction with ME EQUIPMENT and ME SYSTEMS<br/>             11.6.7 Sterilization of ME EQUIPMENT and ME SYSTEMS<br/>             15.4.2.1 f) Application<br/>             15.4.3.4 Lithium batteries<br/>             Annex G Protection against HAZARDS of ignition of flammable anaesthetic mixtures<br/>             Annex L Insulated winding wires for use without interleaved insulation</p> | <p>Voltage:Max. 300 Va.c.<br/>             Current:Max. 30 A<br/>             Frequency:(50 ~ 60) Hz<br/>             Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br/>             Applied temperature:(-40 ~ 150) °C<br/>             Measuring temperature:Max. 200 °C<br/>             Humidity:Max. 98 % R.H.</p> | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                       | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 시험범위                                                                                                                                                                                                                                                                                                                   | 사업장 | 현장시험 |
|----------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60601-1:2006+A2:2021    | 의료기기    | <p>Medical electrical equipment - Part 1:General requirements for basic safety and essential performance</p> <p>[exception]<br/>             8.8.4.2 Resistance to environmental stress - Requirements of insulating material for rubber<br/>             8.9.1.7 Material groups classification<br/>             9.5.2 Cathode ray tubes<br/>             10.3 Microwave radiation<br/>             ME EQUIPMENT and ME SYSTEMS used in conjunction with OXYGEN RICH ENVIRONMENTS<br/>             SINGLE FAULT CONDITIONS related to OXYGEN RICH ENVIRONMENTS in conjunction with ME EQUIPMENT and ME SYSTEMS<br/>             11.6.7 Sterilization of ME EQUIPMENT and ME SYSTEMS<br/>             15.4.2.1 f) Application<br/>             15.4.3.4 Lithium batteries<br/>             Annex G Protection against HAZARDS of ignition of flammable anaesthetic mixtures<br/>             Annex L Insulated winding wires for use without interleaved insulation</p> | <p>Voltage:Max. 300 Va.c.<br/>             Current:Max. 30 A<br/>             Frequency:(50 ~ 60) Hz<br/>             Applied voltage:Max. 10 kV a.c./ 10 kV d.c.<br/>             Applied temperature:(-40 ~ 150) °C<br/>             Measuring temperature:Max. 200 °C<br/>             Humidity:Max. 98 % R.H.</p>  | 소재지 | N    |
| EN 60601-2-10:2015+A1:2016 | 의료기기    | <p>Medical electrical equipment - Part 2-10:Particular requirements for the basic safety and essential performance of nerve and muscle stimulators</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>Voltage:Max. 300 Va.c.<br/>             Current:Max. 30 A<br/>             Frequency:(50 ~ 60) Hz<br/>             Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br/>             Applied temperature:(-40 ~ 150) °C<br/>             Measuring temperature:Max. 200 °C<br/>             Humidity:Max. 98 % R.H.</p> | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호               | 제품 및 물질 | 규격명                                                                                                                                                                           | 시험범위                                                                                                                                                                                                                                                                                           | 사업장 | 현장시험 |
|--------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60601-2-18:2015 | 의료기기    | Medical electrical equipment - Part 2-18:Particular requirements for the basic safety and essential performance of endoscopic equipment                                       | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H.                                                                    | 소재지 | N    |
| EN 60601-2-22:2013 | 의료기기    | Medical electrical equipment - Part 2-22:Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H<br>Laser power : Max. 120 W / 100 J<br>Laser wavelength: Max. 11 µm | 소재지 | N    |
| EN 60601-2-25:2015 | 의료기기    | Medical electrical equipment - Part 2-25:Particular requirements for the basic safety and essential performance of electrocardiographs                                        | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H.                                                                    | 소재지 | N    |
| EN 60601-2-27:2014 | 의료기기    | Medical electrical equipment - Part 2-27:Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment                  | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H.                                                                    | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호               | 제품 및 물질 | 규격명                                                                                                                                                                                                                             | 시험범위                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|--------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60601-2-47:2015 | 의료기기    | Medical electrical equipment - Part 2-47:Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems                                                                      | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H.     | 소재지 | N    |
| EN 60601-2-49:2015 | 의료기기    | Medical electrical equipment - Part 2-49:Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment                                                                   | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H.     | 소재지 | N    |
| EN 60601-2-57:2011 | 의료기기    | Medical electrical equipment - Part 2-57:Particular requirements for the basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H.     | 소재지 | N    |
| EN 60601-2-5:2015  | 의료기기    | Medical electrical equipment - Part 2-5: Particular requirements for the basic safety and essential performance of ultrasonic physiotherapy equipment                                                                           | Voltage: Max 300 Va.c.<br>Current: Max. 30 A<br>Frequency: (50 ~ 60) Hz<br>Applied voltage : Max 10 kVa.c. / 10 kVd.c.<br>Applied temperature: (-40 ~ 150) °C<br>Measuring temperature: Max. 200 °C<br>Humidity: Max. 98 % R.H. | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                   | 제품 및 물질 | 규격명                                                                                                                                                                            | 시험범위                                                                                                                                                                                                                                                                                                   | 사업장 | 현장시험 |
|------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60601-2-62:2015     | 의료기기    | Medical electrical equipment - Part 2-62: Particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment     | Voltage: Max 300 Va.c.<br>Current: Max. 30 A<br>Frequency: (50 ~ 60) Hz<br>Applied voltage : Max 10 kVa.c. / 10 kVd.c.<br>Applied temperature: (-40 ~ 150) °C<br>Measuring temperature: Max. 200 °C<br>Humidity: Max. 98 % R.H.                                                                        | 소재지 | N    |
| EN 60601-2-66:2015     | 의료기기    | Medical electrical equipment - Part 2-66: Particular requirements for the basic safety and essential performance of hearing instruments and hearing instrument systems         | Voltage: Max. 300 Va.c.<br>Current: Max. 30 A<br>Frequency: (50 ~ 60) Hz<br>Applied voltage: Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature: (-40 ~ 150) °C<br>Measuring temperature: Max. 200 °C<br>Humidity: Max. 98 % R.H.                                                                     | 소재지 | N    |
| EN 80601-2-60:2015     | 의료기기    | Medical electrical equipment - Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment                                           | Voltage: Max. 300 Va.c.<br>Current: Max. 30 A<br>Frequency: (50 ~ 60) Hz<br>Applied voltage: Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature: (-40 ~ 150) °C<br>Measuring temperature: Max. 200 °C<br>Humidity: Max. 98 % R.H.                                                                     | 소재지 | N    |
| EN IEC 60601-2-22:2020 | 의료기기    | Medical electrical equipment - Part 2-22: Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment | Voltage: Max. 300 Va.c.<br>Current: Max. 30 A<br>Frequency: (50 ~ 60) Hz<br>Applied voltage: Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature: (-40 ~ 150) °C<br>Measuring temperature: Max. 200 °C<br>Humidity: Max. 98 % R.H.<br>Laser power : Max. 120 W / 100 J<br>Laser wavelength: Max. 11 μm | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                        | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                   | 시험범위                                                                                                                                                                                                                        | 사업장 | 현장시험 |
|-----------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 60601-2-2:2018       | 의료기기    | Medical electrical equipment - Part 2-2:Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories<br><br>[exception]<br>201.15.101.5 NE thermal performance | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H. | 소재지 | N    |
| EN IEC 60601-2-66:2020      | 의료기기    | Medical electrical equipment - Part 2-66: Particular requirements for the basic safety and essential performance of hearing aids and hearing aid systems                                                                                              | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H. | 소재지 | N    |
| EN IEC 80601-2-60:2020      | 의료기기    | Medical electrical equipment - Part 2-60:Particular requirements for the basic safety and essential performance of dental equipment                                                                                                                   | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H. | 소재지 | N    |
| IEC 60601-1-10:2007+A1:2013 | 의료기기    | Medical electrical equipment - Part 1-10:General requirements for basic safety and essential performance - Collateral Standard:Requirements for the development of physiologic closed-loop controllers                                                | -                                                                                                                                                                                                                           | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                        | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                   | 시험범위                                                                                                                                                                                                                        | 사업장 | 현장시험 |
|-----------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60601-1-10:2007+A2:2020 | 의료기기    | Medical electrical equipment - Part 1-10: General requirements for basic safety and essential performance - Collateral Standard: Requirements for the development of physiologic closed-loop controllers                                              | -                                                                                                                                                                                                                           | 소재지 | N    |
| IEC 60601-1-11:2015         | 의료기기    | Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H. | 소재지 | N    |
| IEC 60601-1-11:2015+A1:2020 | 의료기기    | Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c./ 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H.  | 소재지 | N    |
| IEC 60601-1-6:2010+A1:2013  | 의료기기    | Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability                                                                                                             | -                                                                                                                                                                                                                           | 소재지 | N    |
| IEC 60601-1-6:2010+A2:2020  | 의료기기    | Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability                                                                                                             | -                                                                                                                                                                                                                           | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                       | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                      | 시험범위                             | 사업장 | 현장시험 |
|----------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----|------|
| IEC 60601-1-8:2006+A1:2012 | 의료기기    | Medical electrical equipment - Part 1-8:General requirements for basic safety and essential performance - Collateral Standard:General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems  | Sound pressure level:Max. 140 dB | 소재지 | N    |
| IEC 60601-1-8:2006+A2:2020 | 의료기기    | Medical electrical equipment - Part 1-8: General requirements for basic safety and essential performance - Collateral Standard:General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems | Sound pressure level:Max. 140 dB | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                     | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 시험범위                                                                                                                                                                                                                                                                                                                   | 사업장 | 현장시험 |
|--------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60601-1:2005+A1:2012 | 의료기기    | <p>Medical electrical equipment - Part 1:General requirements for basic safety and essential performance</p> <p>[exception]<br/>             8.8.4.2 Resistance to environmental stress - Requirements of insulating material for rubber<br/>             8.9.1.7 Material groups classification<br/>             9.5.2 Cathode ray tubes<br/>             10.3 Microwave radiation<br/>             11.2.2 ME EQUIPMENT and ME SYSTEMS used in conjunction with OXYGEN RICH ENVIRONMENTS<br/>             11.2.3 SINGLE FAULT CONDITIONS related to OXYGEN RICH ENVIRONMENTS in conjunction with ME EQUIPMENT and ME SYSTEMS<br/>             11.6.7 Sterilization of ME EQUIPMENT and ME SYSTEMS<br/>             15.4.2.1 f) Application<br/>             15.4.3.4 Lithium batteries<br/>             Annex G Protection against HAZARDS of ignition of flammable anaesthetic mixtures<br/>             Annex L Insulated winding wires for use without interleaved insulation</p> | <p>Voltage:Max. 300 Va.c.<br/>             Current:Max. 30 A<br/>             Frequency:(50 ~ 60) Hz<br/>             Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br/>             Applied temperature:(-40 ~ 150) °C<br/>             Measuring temperature:Max. 200 °C<br/>             Humidity:Max. 98 % R.H.</p> | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                        | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 시험범위                                                                                                                                                                                                                        | 사업장 | 현장시험 |
|-----------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60601-1:2005+A2:2020    | 의료기기    | Medical electrical equipment<br>- Part 1:General requirements for basic safety and essential performance [exception]<br>8.8.4.2 Resistance to environmental stress<br>- Requirements of insulating material for rubber<br>8.9.1.7 Material groups classification<br>9.5.2 Cathode ray tubes<br>10.3 Microwave radiation<br>ME EQUIPMENT and ME SYSTEMS used in conjunction with OXYGEN RICH ENVIRONMENTS<br>SINGLE FAULT CONDITIONS related to OXYGEN RICH ENVIRONMENTS in conjunction with ME EQUIPMENT and ME SYSTEMS<br>11.6.7 Sterilization of ME EQUIPMENT and ME SYSTEMS<br>15.4.2.1 f) Application<br>15.4.3.4 Lithium batteries<br>Annex G Protection against HAZARDS of ignition of flammable anaesthetic mixtures<br>Annex L Insulated winding wires for use without interleaved insulation | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c./ 10 kV d.c. Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H.     | 소재지 | N    |
| IEC 60601-2-10:2012+A1:2016 | 의료기기    | Medical electrical equipment - Part 2-10:Particular requirements for the basic safety and essential performance of nerve and muscle stimulators                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H. | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                                    | 제품 및 물질 | 규격명                                                                                                                                                                           | 시험범위                                                                                                                                                                                                                                                                                           | 사업장 | 현장시험 |
|-----------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60601-2-10:2012+AMD1:2016+AMD2:2023 | 의료기기    | Medical electrical equipment - Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators                              | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H.                                                                    | 소재지 | N    |
| IEC 60601-2-18:2009                     | 의료기기    | Medical electrical equipment - Part 2-18:Particular requirements for the basic safety and essential performance of endoscopic equipment                                       | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H.                                                                    | 소재지 | N    |
| IEC 60601-2-22:2007+A1:2012             | 의료기기    | Medical electrical equipment - Part 2-22:Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H<br>Laser power : Max. 120 W / 100 J<br>Laser wavelength: Max. 11 µm | 소재지 | N    |
| IEC 60601-2-22:2019                     | 의료기기    | Medical electrical equipment - Part 2-22:Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H<br>Laser power : Max. 120 W / 100 J<br>Laser wavelength: Max. 11 µm | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                   | 시험범위                                                                                                                                                                                                                        | 사업장 | 현장시험 |
|---------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60601-2-25:2011 | 의료기기    | Medical electrical equipment - Part 2-25:Particular requirements for the basic safety and essential performance of electrocardiographs                                                                                                                | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H. | 소재지 | N    |
| IEC 60601-2-27:2011 | 의료기기    | Medical electrical equipment - Part 2-27:Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment                                                                                          | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H. | 소재지 | N    |
| IEC 60601-2-2:2017  | 의료기기    | Medical electrical equipment - Part 2-2:Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories<br><br>[exception]<br>201.15.101.5 NE thermal performance | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H. | 소재지 | N    |
| IEC 60601-2-47:2012 | 의료기기    | Medical electrical equipment - Part 2-47:Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems                                                                                            | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H. | 소재지 | N    |

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| 규격번호                | 제품 및 물질 | 규격명                                                                                                                                                                                                                             | 시험범위                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|---------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60601-2-49:2011 | 의료기기    | Medical electrical equipment - Part 2-49:Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment                                                                   | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H.     | 소재지 | N    |
| IEC 60601-2-57:2011 | 의료기기    | Medical electrical equipment - Part 2-57:Particular requirements for the basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H.     | 소재지 | N    |
| IEC 60601-2-5:2009  | 의료기기    | Medical electrical equipment - Part 2-5: Particular requirements for the basic safety and essential performance of ultrasonic physiotherapy equipment                                                                           | Voltage: Max 300 Va.c.<br>Current: Max. 30 A<br>Frequency: (50 ~ 60) Hz<br>Applied voltage : Max 10 kVa.c. / 10 kVd.c.<br>Applied temperature: (-40 ~ 150) °C<br>Measuring temperature: Max. 200 °C<br>Humidity: Max. 98 % R.H. | 소재지 | N    |
| IEC 60601-2-62:2013 | 의료기기    | Medical electrical equipment - Part 2-62: Particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment                                                      | Voltage: Max 300 Va.c.<br>Current: Max. 30 A<br>Frequency: (50 ~ 60) Hz<br>Applied voltage : Max 10 kVa.c. / 10 kVd.c.<br>Applied temperature: (-40 ~ 150) °C<br>Measuring temperature: Max. 200 °C<br>Humidity: Max. 98 % R.H. | 소재지 | N    |

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| 규격번호                          | 제품 및 물질 | 규격명                                                                                                                                                                    | 시험범위                                                                                                                                                                                                                         | 사업장 | 현장시험 |
|-------------------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60601-2-66:2015           | 의료기기    | Medical electrical equipment - Part 2-66: Particular requirements for the basic safety and essential performance of hearing instruments and hearing instrument systems | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H.  | 소재지 | N    |
| IEC 60601-2-66:2019           | 의료기기    | Medical electrical equipment - Part 2-66: Particular requirements for the basic safety and essential performance of hearing aids and hearing aid systems               | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H.  | 소재지 | N    |
| IEC 80601-2-49:2018           | 의료기기    | Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors                     | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H.  | 소재지 | N    |
| IEC 80601-2-49:2018+AMD1:2024 | 의료기기    | Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors                     | Voltage : Max. 300 Va.c.<br>Current : Max. 30 A<br>Frequency : (50 ~ 60) Hz<br>Applied voltage : Max. 10 kVa.c. / 10 kVd.c.<br>Applied temperature : (-40 ~ 150) °C<br>Temperature : Max. 200 °C<br>Humidity : Max. 98 %R.H. | 소재지 | N    |

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| 규격번호                | 제품 및 물질 | 규격명                                                                                                                                  | 시험범위                                                                                                                                                                                                                         | 사업장 | 현장시험 |
|---------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 80601-2-60:2012 | 의료기기    | Medical electrical equipment - Part 2-60:Particular requirements for the basic safety and essential performance of dental equipment  | Voltage:Max. 300 Va.c.<br>Current:Max. 30 A<br>Frequency:(50 ~ 60) Hz<br>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.<br>Applied temperature:(-40 ~ 150) °C<br>Measuring temperature:Max. 200 °C<br>Humidity:Max. 98 % R.H.  | 소재지 | N    |
| IEC 80601-2-60:2019 | 의료기기    | Medical electrical equipment - Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment | Voltage : Max. 300 Va.c.<br>Current : Max. 30 A<br>Frequency : (50 ~ 60) Hz<br>Applied voltage : Max. 10 kVa.c. / 10 kVd.c.<br>Applied temperature : (-40 ~ 150) °C<br>Temperature : Max. 200 °C<br>Humidity : Max. 98 %R.H. | 소재지 | N    |

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## 03. 전기시험

### 03.011 전자기적합성

| 규격번호                              | 제품 및 물질            | 규격명                                                                                                                                                                                                 | 시험범위                                                                              | 사업장 | 현장 시험 |
|-----------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----|-------|
| 47 CFR PART 15 Subpart B:2022     | 가정용 전기기기, 산업용 전기기기 | Unintentional Radiators                                                                                                                                                                             | RE:9 kHz ~ 40 GHz, CE:9 kHz ~ 30 MHz                                              | 소재지 | N     |
| ANSI C63.4:2014                   | 가정용 전기기기, 산업용 전기기기 | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in Range of 9 kHz ~ 40 GHz                                      | 9 kHz ~ 40 GHz                                                                    | 소재지 | Y     |
| ANSI C63.4a:2017                  | 가정용 전기기기, 산업용 전기기기 | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in Range of 9 kHz ~ 40 GHz<br>Amendment 1: Test Site Validation | 9 kHz ~ 40 GHz                                                                    | 소재지 | Y     |
| AS/NZS CISPR 32:2015              | 유/무선 통신기기          | Electromagnetic compatibility of multimedia equipment - Emission Requirements                                                                                                                       | RE:30 MHz ~ 6 GHz, CE:150 kHz ~ 30 MHz<br>Differential voltage:30 MHz ~ 2 150 MHz | 소재지 | N     |
| AS/NZS CISPR 32:2015 Amd 1:2020   | 유/무선 통신기기          | Electromagnetic compatibility of multimedia equipment - Emission Requirements                                                                                                                       | RE:30 MHz ~ 6 GHz, CE:150 kHz ~ 30 MHz<br>Differential voltage:30 MHz ~ 2 150 MHz | 소재지 | N     |
| CAN/CSA-CISPR 32:17               | 유/무선 통신기기          | Electromagnetic compatibility of multimedia equipment - Emission Requirements                                                                                                                       | RE:30 MHz ~ 6 GHz, CE:150 kHz ~ 30 MHz<br>Differential voltage:30 MHz ~ 2 150 MHz | 소재지 | N     |
| CAN/CSA-CISPR 32:17(R2022)/A1:24  | 유/무선 통신기기          | Electromagnetic compatibility of multimedia equipment - Emission Requirements                                                                                                                       | RE:30 MHz ~ 6 GHz, CE:150 kHz ~ 30 MHz<br>Differential voltage:30 MHz ~ 2 150 MHz | 소재지 | N     |
| CISPR 11:2015+AMD1:2016+AMD2:2019 | 산업용 전기기기, 의료기기     | Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [exception] 8 Special provisions for test site measurements          | RE:9 kHz ~ 18 GHz, CE:9 kHz ~ 30 MHz                                              | 소재지 | N     |

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| 규격번호                        | 제품 및 물질          | 규격명                                                                                                                                                                                        | 시험범위                                                                                                                           | 사업장 | 현장시험 |
|-----------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----|------|
| CISPR 11:2024               | 산업용 전기기기<br>의료기기 | Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement [Exception] 8 Special provisions for test site measurements | RE:9 kHz ~ 18 GHz,<br>CE:9 kHz ~ 30 MHz                                                                                        | 소재지 | N    |
| CISPR 13:2009+AMD1:2015 CSV | 유/무선 통신기기        | Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement                                                  | RE:30 MHz ~ 6 GHz,<br>CE:150 kHz ~ 30 MHz<br>Differential voltage:30 MHz ~ 2 150 MHz                                           | 소재지 | N    |
| CISPR 14-1:2016             | 가정용 전기기기         | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Part 1:Emission                                                                | RE:9 kHz ~ 1 GHz,<br>CE:9 kHz ~ 30 MHz<br>DCE:150 kHz ~ 30 MHz<br>Disturbance Power: 30 MHz ~ 300 MHz                          | 소재지 | N    |
| CISPR 14-1:2020             | 가정용 전기기기         | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Part 1:Emission                                                                | RE:9 kHz ~ 6 GHz,<br>CE:9 kHz ~ 30 MHz<br>DCE:150 kHz ~ 30 MHz<br>Disturbance Power: 30 MHz ~ 300 MHz                          | 소재지 | N    |
| CISPR 14-2:2015             | 가정용 전기기기         | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2:Immunity - Product family standard                                    | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 1 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 230 MHz<br>V-DIP:(0 ~ 100) % | 소재지 | N    |
| CISPR 14-2:2020             | 가정용 전기기기         | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2:Immunity - Product family standard                                    | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 230 MHz<br>V-DIP:(0 ~ 100) % | 소재지 | N    |

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| 규격번호                                  | 제품 및 물질           | 규격명                                                                                                                                                                                                             | 시험범위                               | 사업장 | 현장시험 |
|---------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----|------|
| CISPR 15:2018                         | 조명기기              | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [exception] 4.2 Insertion loss                                                              | RE:9 kHz ~ 1 GHz CE:9 kHz ~ 30 MHz | 소재지 | N    |
| CISPR 15:2018+AMD1:2024               | 조명기기              | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [제외항목] 4.2 Insertion loss                                                                   | RE:9 kHz ~ 6 GHz CE:9 kHz ~ 30 MHz | 소재지 | N    |
| CISPR 16-1-4:2019                     | 가정용 전기기기 산업용 전기기기 | Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4:Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements  | RE:9 kHz ~ 18 GHz                  | 소재지 | Y    |
| CISPR 16-1-4:2019+AMD1:2020           | 가정용 전기기기 산업용 전기기기 | Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements | RE : 9 kHz ~ 18 GHz                | 소재지 | Y    |
| CISPR 16-1-4:2019+AMD1:2020+AMD2:2023 | 가정용 전기기기 산업용 전기기기 | Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements | RE : 9 kHz ~ 18 GHz                | 소재지 | Y    |

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| 규격번호                    | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                        | 시험범위                                                                                                                                         | 사업장    | 현장시험 |
|-------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------|------|
| CISPR 25:2021           | 유/무선 통신기기 | Vehicle, boats and internal combustion engines - Radio disturbances characteristics - Limits and methods of measurement for the protection of on-board receivers.<br><br>[exception]<br>5.4 Test setup of vehicle in charging mode<br>5.5 Example of limits for vehicle radiated disturbances<br>Annex A, B, C, D, E, F, H | RE: 150 kHz ~ 2.5 GHz<br>CE(Voltage method): 150 kHz ~ 108 MHz<br>CE(Current method): 150 kHz ~ 245 MHz                                      | 부속시설-2 | N    |
| CISPR 25:2021           | 유/무선 통신기기 | Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers.                                                                                                                                                          | RE:150 kHz ~ 2.5 GHz<br>CE(VOLTAGE METHOD):150 kHz ~ 108 MHz<br>CE(CURRENT METHOD):150 kHz ~ 245 MHz                                         | 소재지    | Y    |
| CISPR 32:2015           | 유/무선 통신기기 | Electromagnetic compatibility of multimedia equipment - Emission Requirements                                                                                                                                                                                                                                              | RE:30 MHz ~ 6 GHz,<br>CE:150 kHz ~ 30 MHz<br>Differential voltage:30 MHz ~ 2 150 MHz                                                         | 소재지    | N    |
| CISPR 32:2015+AMD1:2019 | 유/무선 통신기기 | Electromagnetic compatibility of multimedia equipment - Emission Requirements                                                                                                                                                                                                                                              | RE:30 MHz ~ 6 GHz,<br>CE:150 kHz ~ 30 MHz<br>Differential voltage:30 MHz ~ 2 150 MHz                                                         | 소재지    | N    |
| CISPR 35:2016           | 유무선 통신기기  | Electromagnetic compatibility of multimedia equipment - Immunity requirements<br>[exception]<br>Table 2 - Immunity requirements for analogue/digital data ports:<br>2.2 Broadband impulse noise disturbances repetitive<br>2.3 Broadband impulse noise disturbances, isolated                                              | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6.0 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:1 A/m<br>V-DIP:(0 ~ 100) % | 소재지    | N    |

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| 규격번호                                 | 제품 및 물질        | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 시험범위                                                                                                                                                                                           | 사업장 | 현장시험 |
|--------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| CSA CISPR 11 : 19                    | 산업용 전기기기, 의료기기 | Industrial, scientific and medical equipment<br>- Radio-frequency disturbance characteristics<br>- Limits and methods of measurement                                                                                                                                                                                                                                                                                                                                                                                                                                              | RE:9 kHz ~ 18 GHz, CE:9 kHz ~ 30 MHz                                                                                                                                                           | 소재지 | N    |
| ECE Regulation No.10 Revision 6:2019 | 유무선 통신기기       | Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility.<br>Annex 7 - Method of measurement of radiated broadband electromagnetic emissions from electrical/electronic sub-assemblies (ESAs)<br>Annex 8 - Method of measurement of radiated narrowband electromagnetic emissions from electrical/electronic sub-assemblies<br>Annex 9 - Method(s) of testing for immunity of electrical/electronic sub-assemblies to electromagnetic radiation<br>[exception]<br>1.2.1(b) TEM cell<br>1.2.1(d) Stripline<br>1.2.1(e) 800 mm stripline | RE:30 MHz ~ 1 GHz<br>ALSE:80 MHz ~ 2 GHz<br>BCI:20 MHz ~ 400 MHz<br>TI: - 600 V ~ 200 V<br>TE:12 V, 24 V System                                                                                | 소재지 | N    |
| EN 50121-3-2:2016+A1:2019            | 산업용 전기기기       | Railway applications<br>- Electromagnetic compatibility<br>Part3-2:Rolling stock - Apparatus<br>[exception]<br>[Table 1] Emission<br>1.2 AC Power outlet port for public use                                                                                                                                                                                                                                                                                                                                                                                                      | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz<br>CS : 150 kHz ~ 80 MHz<br>EFT : ±2 kV<br>SURGE : ±1 kV, ±2 kV<br>RS : 80 MHz ~ 6 GHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)                        | 소재지 | N    |
| EN 50121-4:2016+A1:2019              | 산업용 전기기기       | Railway applications-<br>Electromagnetic compatibility<br>Part4:Emission and immunity of the signalling and telecommunications apparatus                                                                                                                                                                                                                                                                                                                                                                                                                                          | RE :30 MHz ~ 6 GHz<br>CE :150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD:±8 kV(Air) ±6 kV (Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F: 300 A/m | 소재지 | N    |

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| 규격번호                     | 제품 및 물질              | 규격명                                                                                                                                                                                               | 시험범위                                                                                                                                                                    | 사업장 | 현장시험 |
|--------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 50130-4:2011+A1:2014  | 산업용 전기기기             | Alarm systems - Part 4 : electromagnetic compatibility - Product family standard : immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems | ESD:±8 kV(Air)<br>±6 kV(Contact)<br>RS:80 MHz ~ 2.7 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 100 MHz V-DIP:(0 ~ 100) %                                           | 소재지 | N    |
| EN 50155:2017            | 산업용 전기기기             | Railway applications - Rolling stock - Electronic equipment 13.4.8 Electromagnetic compatibility test                                                                                             | RE : 30 MHz ~ 6 GHz<br>CE : 150 kHz ~ 30 MHz<br>CS : 150 kHz ~ 80 MHz<br>EFT : ±2 kV<br>SURGE : ±1 kV, ±2 kV<br>RS : 80 MHz ~ 6 GHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact) | 소재지 | N    |
| EN 55011:2016 +A11:2020  | 가정용 전기기기<br>산업용 전기기기 | Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement                                                                    | RE:9 kHz ~ 18 GHz, CE:9 kHz ~ 30 MHz                                                                                                                                    | 소재지 | N    |
| EN 55011:2016 +A2:2021   | 가정용 전기기기<br>산업용 전기기기 | Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement                                                                    | RE:9 kHz ~ 18 GHz, CE:9 kHz ~ 30 MHz                                                                                                                                    | 소재지 | N    |
| EN 55013 : 2013+A1:2016  | 가정용 전기기기             | Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement                                                         | RE:30 MHz ~ 6 GHz,<br>CE:150 kHz ~ 30 MHz<br>Differential voltage:30 MHz ~ 2 150 MHz                                                                                    | 소재지 | N    |
| EN 55014-1:2017          | 가정용 전기기기             | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Part 1:Emission                                                                       | RE:9 kHz ~ 1 GHz,<br>CE:9 kHz ~ 30 MHz<br>DCE:150 kHz ~ 30 MHz<br>Disturbance Power: 30 MHz ~ 300 MHz                                                                   | 소재지 | N    |
| EN 55014-1:2017+A11:2020 | 가정용 전기기기             | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Part 1:Emission                                                                       | RE:9 kHz ~ 1 GHz,<br>CE:9 kHz ~ 30 MHz<br>DCE:150 kHz ~ 30 MHz<br>Disturbance Power: 30 MHz ~ 300 MHz                                                                   | 소재지 | N    |

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| 규격번호                   | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                     | 시험범위                                                                                                                                         | 사업장 | 현장시험 |
|------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 55014-2:2015        | 가정용 전기기기 | Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity                                                                                                                                          | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 1 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 230 MHz<br>V-DIP:(0 ~ 100) %               | 소재지 | N    |
| EN 55015:2019          | 조명기기     | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [exception] 4.2 Insertion loss                                                                                                                      | RE:9 kHz ~ 1 GHz, CE:9 kHz ~ 30 MHz                                                                                                          | 소재지 | N    |
| EN 55024:2010          | 유무선 통신기기 | Information technology equipment – Immunity characteristics – Limits and methods of measurement                                                                                                                                                                         | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 1 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:1 A/m<br>V-DIP:(0 ~ 100) %   | 소재지 | N    |
| EN 55032:2015          | 유무선 통신기기 | Electromagnetic compatibility of multimedia equipment – Emission Requirements                                                                                                                                                                                           | RE:30 MHz ~ 6 GHz,<br>CE:150 kHz ~ 30 MHz<br>Differential voltage:30 MHz ~ 2 150 MHz                                                         | 소재지 | N    |
| EN 55032:2015+A11:2020 | 유무선 통신기기 | Electromagnetic compatibility of multimedia equipment – Emission Requirements                                                                                                                                                                                           | RE:30 MHz ~ 6 GHz,<br>CE:150 kHz ~ 30 MHz<br>Differential voltage:30 MHz ~ 2 150 MHz                                                         | 소재지 | N    |
| EN 55032:2015+A1:2020  | 유무선 통신기기 | Electromagnetic compatibility of multimedia equipment – Emission Requirements                                                                                                                                                                                           | RE:30 MHz ~ 6 GHz,<br>CE:150 kHz ~ 30 MHz<br>Differential voltage:30 MHz ~ 2 150 MHz                                                         | 소재지 | N    |
| EN 55035:2017          | 유무선 통신기기 | Electromagnetic compatibility of multimedia equipment – Immunity Requirements [exception] Table 2 – Immunity requirements for analogue/digital data ports:<br>2.2 Broadband impulse noise disturbances repetitive<br>2.3 Broadband impulse noise disturbances, isolated | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6.0 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:1 A/m<br>V-DIP:(0 ~ 100) % | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                      | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                        | 시험범위                                                                                                                                                                                                                                                                                  | 사업장 | 현장시험 |
|---------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 55035:2017+A11:2020    | 유무선 통신기기 | Electromagnetic compatibility of multimedia equipment - Immunity Requirements [exception]<br>Table 2 - Immunity requirements for analogue/digital data ports:<br>2.2 Broadband impulse noise disturbances repetitive<br>2.3 Broadband impulse noise disturbances, isolated | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6.0 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:1 A/m<br>V-DIP:(0 ~ 100) %                                                                                                                                          | 소재지 | N    |
| EN 60601-1-2:2015         | 의료기기     | Medical electrical equipment -Part 1-2:General requirements for basic safety and essential performance - Collateral<br>Standard:Electromagnetic disturbances - Requirements and tests                                                                                      | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI:-600 V ~ 200 V                           | 소재지 | N    |
| EN 60601-1-2:2007         | 의료기기     | Medical electrical equipment - Part 1-2:General requirements for basic safety and essential performance - Collateral<br>Standard:Electromagnetic compatibility - Requirements and tests                                                                                    | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±6 kV(Contact)<br>RS:80 MHz ~ 2.5 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:3 A/m<br>V-DIP:(0 ~ 100) %                                                | 소재지 | N    |
| EN 60601-1-2:2015+A1:2021 | 의료기기     | Medical electrical equipment -Part 1-2:General requirements for basic safety and essential performance - Collateral<br>Standard:Electromagnetic disturbances - Requirements and tests                                                                                      | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI:-600 V ~ 200 V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                        | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                     | 시험범위                                                                                                                                                                                                                                                       | 사업장 | 현장시험 |
|-----------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 60601-2-24:2015          | 의료기기     | Medical electrical equipment - Part 2-24:Particular requirements for the basic safety and essential performance of infusion pumps and controllers<br><Accept Only><br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic compatibility - Requirements and tests | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V | 소재지 | N    |
| EN 61000-3-3:2013           | 가정용 전기기기 | Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection                                              | below 16 A                                                                                                                                                                                                                                                 | 소재지 | N    |
| EN 61000-3-3:2013+A1:2019   | 가정용 전기기기 | Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection                                              | below 16 A                                                                                                                                                                                                                                                 | 소재지 | N    |
| EN 61000-3-3:2013+AMD2:2021 | 가정용 전기기기 | Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection                                              | below 16 A                                                                                                                                                                                                                                                 | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                                | 제품 및 물질              | 규격명                                                                                                                                                           | 시험범위                    | 사업장 | 현장시험 |
|-------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----|------|
| EN 61000-4-11:2004 +A1:2017         | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests | V-DIP: (0 ~ 100) %      | 소재지 | N    |
| EN 61000-4-2:2009                   | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test                                    | below $\pm 30$ kV       | 소재지 | N    |
| EN 61000-4-39 : 2017                | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) – Part 4-39: Testing and measurement techniques – Radiated fields in close proximity – Immunity test                      | PMF: 10 kHz ~ 13.56 MHz | 소재지 | N    |
| EN 61000-4-3:2006 +A1:2008 +A2:2010 | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test           | RS: 80 MHz ~ 6 GHz      | 소재지 | Y    |
| EN 61000-4-4:2012                   | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques – Electrical fast transient/burst immunity test                            | EFT: below $\pm 4$ kV   | 소재지 | N    |
| EN 61000-4-5:2014                   | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Electrostatic discharge immunity test                                    | SURGE: below $\pm 6$ kV | 소재지 | N    |
| EN 61000-4-5:2014+A1:2017           | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Electrostatic discharge immunity test                                    | SURGE: below $\pm 6$ kV | 소재지 | N    |

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제 KT197호

| 규격번호                | 제품 및 물질              | 규격명                                                                                                                                                       | 시험범위                                                                                                                                                                                   | 사업장 | 현장시험 |
|---------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN 61000-4-6:2014   | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility(EMC) - Part 4-6:Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields  | CS:150 kHz ~ 230 MHz                                                                                                                                                                   | 소재지 | N    |
| EN 61000-4-8:2010   | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) Part 4-8:Testing and measurement techniques - Power frequency magnetic field immunity test                            | M/F: below 100 A/m                                                                                                                                                                     | 소재지 | N    |
| EN 61204-3:2000     | 가정용 전기기기             | Low voltage power supplies, d.c. output - Part 3:Electromagnetic compatibility (EMC)                                                                      | RE:30 MHz ~ 1 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 1 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:1 A/m<br>V-DIP:(0 ~ 100) % | 소재지 | N    |
| EN 62040-2:2018     | 가정용 전기기기             | Uninterruptible power systems (UPS) - Part 2:Electromagnetic compatibility (EMC) requirements [exception] Immunity to Low-frequency signals IEC 61000-2-2 | RE:30 MHz ~ 1 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 1 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:≤ 30 A/m                   | 소재지 | N    |
| EN IEC 55014-1:2021 | 가정용 전기기기             | Electromagnetic compatibility -Requirements for household appliances, electric tools and similar apparatus Part 1: Emission                               | RE:9 kHz ~ 6 GHz,<br>CE:9 kHz ~ 30 MHz<br>DCE:150 kHz ~ 30 MHz<br>Disturbance Power: 30 MHz ~ 300 MHz                                                                                  | 소재지 | N    |
| EN IEC 55014-2:2021 | 가정용 전기기기             | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2:Immunity - Product family standard   | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 230 MHz<br>V-DIP:(0 ~ 100) %                                                         | 소재지 | N    |

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제 KT197호

| 규격번호                                  | 제품 및 물질           | 규격명                                                                                                                                                                | 시험범위                                | 사업장 | 현장시험 |
|---------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----|------|
| EN IEC 55015:2019+A11:2020            | 조명기기              | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [exception] 4.2 Insertion loss                 | RE:9 kHz ~ 1 GHz, CE:9 kHz ~ 30 MHz | 소재지 | N    |
| EN IEC 61000-3-2:2019                 | 가정용 전기기기          | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase)                     | below 16 A                          | 소재지 | N    |
| EN IEC 61000-3-2:2019+A1:2021         | 가정용 전기기기          | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase)                     | below 16 A                          | 소재지 | N    |
| EN IEC 61000-3-2:2019+A1:2021+A2:2024 | 가정용 전기기기 산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase)                     | below 16 A                          | 소재지 | N    |
| EN IEC 61000-4-11:2020                | 가정용 전기기기 산업용 전기기기 | Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase | V-DIP:(0 ~ 100) %                   | 소재지 | N    |
| EN IEC 61000-4-3:2020                 | 가정용 전기기기 산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test                | RS:80 MHz ~ 6 GHz                   | 소재지 | Y    |

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제 KT197호

| 규격번호                  | 제품 및 물질              | 규격명                                                                                                                                                                          | 시험범위                                                                                                                                         | 사업장 | 현장시험 |
|-----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 61000-4-6:2023 | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility(EMC) - Part 4-6:Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields                     | CS:150 kHz ~ 230 MHz                                                                                                                         | 소재지 | N    |
| EN IEC 61000-6-1:2019 | 가정용 전기기기             | Electromagnetic compatibility (EMC) - Part 6-1:Generic standards - Immunity for residential, commercial and light-industrial environments                                    | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:30 A/m<br>V-DIP:(0 ~ 100) %  | 소재지 | N    |
| EN IEC 61000-6-2:2019 | 산업용 전기기기             | Electromagnetic compatibility (EMC) - Part 6-2:Generic standards - Immunity for industrial environments                                                                      | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:30 A/m<br>V-DIP:(0 ~ 100) %  | 소재지 | N    |
| EN IEC 61000-6-3:2021 | 가정용 전기기기             | Electromagnetic compatibility (EMC) -Part 6-3: Generic standards - Emission standard for equipment in residential environments                                               | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>DCE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A                             | 소재지 | N    |
| EN IEC 61000-6-4:2019 | 산업용 전기기기             | Electromagnetic compatibility (EMC) - Part 6-4:Generic standards - Emission standard for industrial environments                                                             | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>DCE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A                             | 소재지 | N    |
| EN IEC 61326-1:2021   | 산업용 전기기기             | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements [exception]<br>IEC 61000-3-11:2017<br>IEC 61000-3-12:2011 | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:≤30 A/m<br>V-DIP:(0 ~ 100) % | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                  | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                      | 시험범위                                                                                                                                         | 사업장 | 현장시험 |
|-----------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 61326-2-1:2021 | 산업용 전기기기 | Electrical equipment for measurement, control and laboratory use<br>- EMC requirements - Part 2-1: Particular requirements<br>- Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications                                                       | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:≤30 A/m<br>V-DIP:(0 ~ 100) % | 소재지 | N    |
| EN IEC 61326-2-2:2021 | 산업용 전기기기 | Electrical equipment for measurement, control and laboratory use<br>- EMC requirements - Part 2-2:Particular requirements<br>- Test configurations, operational conditions and performance criteria for portable testing, measuring and monitoring equipment used in low-voltage distribution systems                                    | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:≤30 A/m<br>V-DIP:(0 ~ 100) % | 소재지 | N    |
| EN IEC 61326-2-3:2021 | 산업용 전기기기 | Electrical equipment for measurement, control and laboratory use<br>- EMC requirements - Part 2-3: Particular requirements - Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning                                                                           | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:≤30 A/m<br>V-DIP:(0 ~ 100) % | 소재지 | N    |
| EN IEC 61326-2-4:2021 | 산업용 전기기기 | Electrical equipment for measurement, control and laboratory use<br>- EMC requirements - Part 2-4: Particular requirements<br>- Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9 | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:≤30 A/m<br>V-DIP:(0 ~ 100) % | 소재지 | N    |

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제 KT197호

| 규격번호                           | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                          | 시험범위                                                                                                                                                                                                                                                                             | 사업장 | 현장시험 |
|--------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| EN IEC 61326-2-5:2021          | 산업용 전기기기 | Electrical equipment for measurement, control and laboratory use<br>- EMC requirements<br>- Part 2-5: Particular requirements<br>- Test configurations, operational conditions and performance criteria for field devices with field bus interfaces according to IEC 61784-1 | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:≤30 A/m<br>V-DIP:(0 ~ 100) %                                                                                                                                     | 소재지 | N    |
| EN IEC 61547:2023              | 조명기기     | Equipment for general lighting purposes - EMC immunity requirements                                                                                                                                                                                                          | ESD:±8 kV(Air) , ±4 kV (Contact)<br>RS:80 MHz ~ 1 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:3 A/m<br>V-DIP:(0 ~ 100) %                                                                                                                                       | 소재지 | N    |
| ETSI EN 301 489-1 V2.2.3:2019  | 유무선 통신기기 | Electro Magnetic Compatibility (EMC) standard for radio equipment and services Part1:Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility                                                                                                    | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V<br>12 V, 24 V SYSTEM(ISO 7637-2) | 소재지 | N    |
| ETSI EN 301 489-17 V3.2.4:2020 | 유무선 통신기기 | ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17:Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility                                                                    | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>12 V, 24 V SYSTEM(ISO 7637-2)                       | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                                | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                               | 시험범위                                                                                                                                                                                                                                                       | 사업장 | 현장시험 |
|-------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| ETSI EN 301 489-17 V3.3.1:2024      | 유/무선 통신기기 | ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband and Wideband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility                                                                                                                                                                                                           | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>12 V, 24 V SYSTEM(ISO 7637-2) | 소재지 | N    |
| ETSI EN 301 489-19 V2.1.1:2019      | 유무선 통신기기  | Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 19: Specific conditions for Receive Only Mobile Earth Stations(ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band(ROGNSS) providing positioning, navigation, and timing data; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V            | 소재지 | N    |
| ETSI EN 301 489-19 V2.2.1 (2022-09) | 유무선 통신기기  | ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band (ROGNSS) providing positioning, navigation, and timing data; Harmonised Standard for ElectroMagnetic Compatibility                                           | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V            | 소재지 | N    |

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# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                                | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                       | 시험범위                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|-------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| ETSI EN 301 489-2 V2.1.1:2019       | 유무선 통신기기 | Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 2: Specific conditions for radio paging equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU                                                                                                                  | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| ETSI EN 301 489-20 V2.2.1 (2021-11) | 유무선 통신기기 | ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS); Harmonised Standard for ElectroMagnetic Compatibility                                                                                                            | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V                                                 | 소재지 | N    |
| ETSI EN 301 489-27 V2.2.1:2019      | 유무선 통신기기 | ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 27: Specific conditions for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P) operating in the 402 MHz to 405 MHz bands; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| ETSI EN 301 489-3 V2.3.2 (2023-01)  | 유무선 통신기기 | ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard for ElectroMagnetic Compatibility                                                                                                        | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V                                                 | 소재지 | N    |

한국인정기구(KOLAS)는 국제시험기관인정협력체(ILAC)의 상호인정협정(MRA) 서명기구입니다.

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제 KT197호

| 규격번호                           | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                   | 시험범위                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|--------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| ETSI EN 301 489-33 V2.2.1:2019 | 유무선 통신기기 | Electromagnetic compatibility (EMC) standard for radio equipment and services;<br>Part 33:Specific conditions for Ultra-Wide Band (UWB) communications devices;<br>Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU  | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| ETSI EN 301 489-34 V2.1.1:2019 | 유무선 통신기기 | Electromagnetic compatibility (EMC) standard for radio equipment and services;<br>Part 34:Specific conditions for External Power Supply (EPS) for mobile phones;<br>Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| ETSI EN 301 489-4 V3.3.1:2021  | 유무선 통신기기 | ElectroMagnetic Compatibility (EMC) standard for radio equipment and services;<br>Part 4:Specific conditions for fixed radio links and ancillary equipment;<br>Harmonised Standard for ElectroMagnetic Compatibility                                                  | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |

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제 KT197호

| 규격번호                           | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                           | 시험범위                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|--------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| ETSI EN 301 489-5 V2.2.1:2019  | 유무선 통신기기 | Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 5: Specific conditions for Private land Mobile Radio(PMR) and ancillary equipment(speech and non-speech) and Terrestrial Trunked Radio(TETRA); Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU                                          | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| ETSI EN 301 489-50 V2.3.1:2021 | 유무선 통신기기 | ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment; Harmonised Standard for ElectroMagnetic Compatibility                                                                                                                             | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| ETSI EN 301 489-51 V2.1.1:2019 | 유무선 통신기기 | Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 51: Specific conditions for Automotive, Ground based Vehicles and Surveillance Radar Devices using 24,05 GHz to 24,25 GHz, 24,05GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |

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제 KT197호

| 규격번호                           | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                 | 시험범위                                                                                                                                                                                                                                            | 사업장 | 현장시험 |
|--------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| ETSI EN 301 489-52 V1.2.1:2021 | 유무선 통신기기  | ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment; Harmonised Standard for ElectroMagnetic Compatibility                                                     | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| ETSI EN 301 489-52 V1.3.1:2024 | 유/무선 통신기기 | ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment; Harmonised Standard for ElectroMagnetic Compatibility                                                     | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| ETSI EN 301 489-6 V2.2.1:2019  | 유무선 통신기기  | Electromagnetic compatibility (EMC) standard for radio equipment and services; Part6:Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU                       | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| ETSI EN 301 489-7 V1.3.1:2005  | 유무선 통신기기  | Electromagnetic compatibility and Radio spectrum Matters (ERM); Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 7:Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS) | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 2.7 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V                                               | 소재지 | N    |

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| 규격번호                             | 제품 및 물질           | 규격명                                                                                                                                                                                                                                                                                                                                          | 시험범위                                                                                                                                                                                                                                                        | 사업장 | 현장시험 |
|----------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| ETSI EN 301 489-9<br>V2.1.1:2019 | 유무선 통신기기          | Electromagnetic compatibility (EMC) standard for radio equipment and services;<br>Part 9:Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices;<br>Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V             | 소재지 | N    |
| ICES-003 Issue 7:2020            | 가정용 전기기기 산업용 전기기기 | Information Technology Equipment (including Digital Apparatus)                                                                                                                                                                                                                                                                               | RE:30 MHz ~ 6 GHz,<br>CE:150 kHz ~ 30 MHz<br>Disturbance Voltage:9 kHz ~ 2.15 GHz                                                                                                                                                                           | 소재지 | N    |
| IEC 60601-1-2:2007               | 의료기기              | Medical electrical equipment - Part 1-2:General requirements for basic safety and essential performance - Collateral standard:Electromagnetic compatibility - Requirements and tests                                                                                                                                                         | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±8 kV(Air)<br>±6 kV(Contact)<br>RS:80 MHz ~ 2.5 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:3 A/m<br>V-DIP:(0 ~ 100) %                      | 소재지 | N    |
| IEC 60601-1-2:2014               | 의료기기              | Medical electrical equipment - Part 1-2:General requirements for basic safety and essential performance - Collateral Standard:Electromagnetic disturbances - Requirements and tests                                                                                                                                                          | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI:-600 V ~ 200 V | 소재지 | N    |

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| 규격번호                                    | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                  | 시험범위                                                                                                                                                                                                                                                                                  | 사업장 | 현장시험 |
|-----------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60601-1-2:2014+AMD1:2020 CSV        | 의료기기    | Medical electrical equipment -Part 1-2:General requirements for basic safety and essential performance - Collateral Standard:Electromagnetic disturbances - Requirements and tests                                                                                                   | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI:-600 V ~ 200 V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 60601-2-10:2012+AMD1:2016+AMD2:2023 | 의료기기    | Medical electrical equipment - Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic disturbances - Requirements and tests | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz  | 소재지 | N    |
| IEC 60601-2-18:2009                     | 의료기기    | Medical electrical equipment - Part 2-18: Particular requirements for the basic safety and essential performance of endoscopic equipment<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic compatibility - Requirements and tests        | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz  | 소재지 | N    |
| IEC 60601-2-22:2019                     | 의료기기    | Medical electrical equipment - Part 2-22: Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment<br>201.17 Electromagnetic compatibility of ME EQUIPMENT AND ME SYSTEMS                                | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz  | 소재지 | N    |

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제 KT197호

| 규격번호                | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                           | 시험범위                                                                                                                                                                                                                                                                                 | 사업장 | 현장시험 |
|---------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60601-2-23:2011 | 의료기기    | Medical electrical equipment - Part 2-23: Particular requirements for the basic safety and essential performance of transcutaneous partial pressure monitoring equipment<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic compatibility - Requirements and tests | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 60601-2-24:2012 | 의료기기    | Medical electrical equipment - Part 2-24:Particular requirements for the basic safety and essential performance of infusion pumps and controllers<br><Accept Only><br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic compatibility - Requirements and tests       | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI:-600 V ~ 200 V                          | 소재지 | N    |
| IEC 60601-2-25:2011 | 의료기기    | Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic compatibility - Requirements and tests                                  | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |

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제 KT197호

| 규격번호                         | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                               | 시험범위                                                                                                                                                                                                                                                                                 | 사업장 | 현장시험 |
|------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60601-2-27:2011          | 의료기기    | Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic compatibility - Requirements and tests                                | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 60601-2-2:2017+AMD1:2023 | 의료기기    | Medical electrical equipment - Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic compatibility - Requirements and tests | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 60601-2-34:2024          | 의료기기    | Medical electrical equipment - Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic disturbances - Requirements and tests                              | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |

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| 규격번호                          | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                | 시험범위                                                                                                                                                                                                                                                                                 | 사업장 | 현장시험 |
|-------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60601-2-35:2020+AMD1:2023 | 의료기기    | Medical electrical equipment - Part 2-35: Particular requirements for the basic safety and essential performance of heating devices using blankets, pads or mattresses and intended for heating in medical use<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic disturbances - Requirements and tests | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 60601-2-36:2014           | 의료기기    | Medical electrical equipment - Part 2-36: Particular requirements for the basic safety and essential performance of equipment for extracorporeally induced lithotripsy<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic compatibility - Requirements and tests                                        | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 60601-2-37:2024           | 의료기기    | Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic disturbances - Requirements and tests                                     | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                                    | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                    | 시험범위                                                                                                                                                                                                                                                                                 | 사업장 | 현장시험 |
|-----------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60601-2-40:2016                     | 의료기기    | Medical electrical equipment - Part 2-40: Particular requirements for the basic safety and essential performance of electromyographs and evoked response equipment<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic disturbances - Requirements and tests | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 60601-2-43:2010+AMD1:2017+AMD2:2019 | 의료기기    | Medical electrical equipment - Part 2-43: Particular requirements for the basic safety and essential performance of X-ray equipment for interventional procedures<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic disturbances - Requirements and tests  | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 60601-2-44:2009+AMD1:2012+AMD2:2016 | 의료기기    | Medical electrical equipment - Part 2-44: Particular requirements for the basic safety and essential performance of X-ray equipment for computed tomography<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic compatibility - Requirements and tests       | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                                    | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                         | 시험범위                                                                                                                                                                                                                                                                                 | 사업장 | 현장시험 |
|-----------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60601-2-45:2011+AMD1:2015+AMD2:2022 | 의료기기    | Medical electrical equipment - Part 2-45: Particular requirements for the basic safety and essential performance of mammographic X-ray equipment and mammographic stereotactic devices<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic compatibility - Requirements and tests | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 60601-2-47:2012                     | 의료기기    | Medical electrical equipment - Part 2-47: Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic compatibility - Requirements and tests                            | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 60601-2-4:2010+AMD1:2018            | 의료기기    | Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic compatibility - Requirements and tests                                              | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                                                         | 시험범위                                                                                                                                                                                                                                                                                 | 사업장 | 현장시험 |
|-------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60601-2-50:2020+AMD1:2023 | 의료기기    | Medical electrical equipment - Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic disturbances - Requirements and tests                                                                       | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 60601-2-52:2009+AMD1:2015 | 의료기기    | Medical electrical equipment - Part 2-52: Particular requirements for the basic safety and essential performance of medical beds<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS                                                                                                                                                     | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 60601-2-54:2022           | 의료기기    | Medical electrical equipment - Part 2-54: Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic disturbances - Requirements and tests<br>202.101 Immunity testing of ESSENTIAL PERFORMANCE | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                             | 시험범위                                                                                                                                                                                                                                                                                 | 사업장 | 현장시험 |
|---------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60601-2-57:2023 | 의료기기    | Medical electrical equipment - Part 2-57: Particular requirements for the basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring, cosmetic and aesthetic use<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS        | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 60601-2-5:2009  | 의료기기    | Medical electrical equipment - Part 2-5: Particular requirements for the basic safety and essential performance of ultrasonic physiotherapy equipment<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic compatibility - Requirements and tests                      | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 60601-2-62:2013 | 의료기기    | Medical electrical equipment - Part 2-62: Particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic compatibility - Requirements and tests | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                                    | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                                                            | 시험범위                                                                                                                                                                                                                                                                                 | 사업장 | 현장시험 |
|-----------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60601-2-63:2012+AMD1:2017+AMD2:2021 | 의료기기    | Medical electrical equipment - Part 2-63: Particular requirements for the basic safety and essential performance of dental extra-oral X-ray equipment<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic compatibility - Requirements and tests                                     | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 60601-2-65:2012+AMD1:2017+AMD2:2021 | 의료기기    | Medical electrical equipment - Part 2-65: Particular requirements for the basic safety and essential performance of dental intra-oral X-ray equipment<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic compatibility - Requirements and tests                                     | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 60601-2-66:2019                     | 의료기기    | Medical electrical equipment - Part 2-66: Particular requirements for the basic safety and essential performance of hearing aids and hearing aid systems<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>[Exception]<br>Hearing aid additional testing for immunity to digital wireless interference | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                                   | 제품 및 물질              | 규격명                                                                                                                                                                                                                                                                                  | 시험범위                                                                                                                                                                                                                                                                                 | 사업장 | 현장시험 |
|----------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60601-2-83:2019+AMD1:2022          | 의료기기                 | Medical electrical equipment - Part 2-83: Particular requirements for the basic safety and essential performance of home light therapy equipment<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic disturbances - Requirements and tests | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 61000-3-2:2005+AMD1+AMD2:2009      | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)                                                                                                                                            | below 16 A                                                                                                                                                                                                                                                                           | 소재지 | N    |
| IEC 61000-3-2:2018+AMD1:2020           | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)                                                                                                                                            | below 16 A                                                                                                                                                                                                                                                                           | 소재지 | N    |
| IEC 61000-3-2:2018+AMD1:2020+AMD2:2024 | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)                                                                                                                                            | below 16 A                                                                                                                                                                                                                                                                           | 소재지 | N    |
| IEC 61000-3-3:2013+AMD1:2017+AMD2:2021 | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection                           | below 16 A                                                                                                                                                                                                                                                                           | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                              | 제품 및 물질              | 규격명                                                                                                                                                                                                                 | 시험범위                    | 사업장 | 현장시험 |
|-----------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----|------|
| IEC 61000-4-11:2004+AMD1:2017     | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests                                                       | V-DIP:(0 ~ 100) %       | 소재지 | N    |
| IEC 61000-4-11:2020               | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase | V-DIP:(0 ~ 100) %       | 소재지 | N    |
| IEC 61000-4-2:2008                | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test                                                                                          | below $\pm 30$ kW       | 소재지 | N    |
| IEC 61000-4-2:2025                | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test                                                                                          | below $\pm 30$ kW       | 소재지 | N    |
| IEC 61000-4-39 : 2017             | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-39: Testing and measurement techniques - Radiated fields in close proximity - Immunity test                                                                            | PMF: 10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 61000-4-3:2006+AMD1+AMD2:2010 | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test                                                                 | RS:80 MHz ~ 6 GHz       | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                         | 제품 및 물질              | 규격명                                                                                                                                                        | 시험범위                    | 사업장 | 현장시험 |
|------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----|------|
| IEC 61000-4-3:2020           | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test        | RS: 80 MHz ~ 6 GHz      | 소재지 | Y    |
| IEC 61000-4-4:2012           | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test                         | EFT: below $\pm 4$ kV   | 소재지 | N    |
| IEC 61000-4-5:2014+AMD1:2017 | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test                                                   | SURGE: below $\pm 6$ kV | 소재지 | N    |
| IEC 61000-4-6:2013           | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields | CS: 150 kHz ~ 230 MHz   | 소재지 | N    |
| IEC 61000-4-6:2023           | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields | CS: 150 kHz ~ 230 MHz   | 소재지 | N    |
| IEC 61000-4-8:2009           | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test                          | M/F: below 100 A/m      | 소재지 | N    |

한국인정기구(KOLAS)는 국제시험기관인정협력체(ILAC)의 상호인정협정(MRA) 서명기구입니다.

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호               | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                           | 시험범위                                                                                                                                        | 사업장 | 현장시험 |
|--------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 61000-6-1:2016 | 가정용 전기기기 | Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments                                                                                                                                           | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:3 A/m<br>V-DIP:(0 ~ 100) %  | 소재지 | N    |
| IEC 61000-6-2:2016 | 산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments                                                                                                                                                                             | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:30 A/m<br>V-DIP:(0 ~ 100) % | 소재지 | N    |
| IEC 61000-6-3:2020 | 가정용 전기기기 | Electromagnetic compatibility (EMC)-Part 6-3:Generic standards - Emission standard for equipment in residential environments                                                                                                                                                                  | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>DCE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A                            | 소재지 | N    |
| IEC 61000-6-4:2018 | 산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 6-4:Generic standards - Emission standard for industrial environments                                                                                                                                                                              | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>DCE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A                            | 소재지 | N    |
| IEC 61326-1:2020   | 산업용 전기기기 | Electrical equipment for measurement, control and laboratory use - EMC requirements Part 1:General requirements [exception]<br>IEC 61000-3-11:2017<br>IEC 61000-3-12:2011                                                                                                                     | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:30 A/m<br>V-DIP:(0 ~ 100) % | 소재지 | N    |
| IEC 61326-2-1:2020 | 산업용 전기기기 | Electrical equipment for measurement, control and laboratory use - EMC requirements Part 2-1:Particular requirements -Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications (IEC 61326-2-1:2012) | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:30 A/m<br>V-DIP:(0 ~ 100) % | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호               | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                            | 시험범위                                                                                                                                         | 사업장 | 현장시험 |
|--------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 61326-2-2:2020 | 산업용 전기기기 | Electrical equipment for measurement, control and laboratory use – EMC requirements Part 2-2:Particular requirements – Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low - voltage distribution systems                                   | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:30 A/m<br>V-DIP:(0 ~ 100) %  | 소재지 | N    |
| IEC 61326-2-3:2020 | 산업용 전기기기 | Electrical equipment for measurement, control and laboratory use – EMC requirements Part 2-3:Particular requirements –Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning                                                                        | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:30 A/m<br>V-DIP:(0 ~ 100) %  | 소재지 | N    |
| IEC 61326-2-4:2020 | 산업용 전기기기 | Electrical equipment for measurement, control and laboratory use – EMC requirements Part 2-4:Particular requirements – Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC61557-8 and for equipment for insulation fault location according to IEC 61557-9 | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:≤30 A/m<br>V-DIP:(0 ~ 100) % | 소재지 | N    |
| IEC 61326-2-5:2020 | 산업용 전기기기 | Electrical equipment for measurement, control and laboratory use – EMC requirements Part 2-5:Particular requirements –Test configurations, operational conditions and performance criteria for devices with field bus interfaces according to IEC61784-1                                                                       | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:≤30 A/m<br>V-DIP:(0 ~ 100) % | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                      | 시험범위                                                                                                                                                                                                                                                                                 | 사업장 | 현장시험 |
|---------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 61547:2020      | 조명기기     | Equipment for general lighting purposes - EMC immunity requirements                                                                                                                                                                                                      | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 1 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:3 A/m<br>V-DIP:(0 ~ 100) %                                                                                                                                           | 소재지 | N    |
| IEC 62040-2:2016    | 가정용 전기기기 | Uninterruptible power systems (UPS) - Part 2:Electromagnetic compatibility (EMC) requirements [exception] Immunity to Low-frequency signals IEC 61000-2-2                                                                                                                | E:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 1 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:30 A/m                                                                                                                                         | 소재지 | N    |
| IEC 62236-3-2:2018  | 산업용 전기기기 | Electromagnetic compatibility - Part3-2: Rolling stock - Apparatus [exception] [Table 1] Emission                                                                                                                                                                        | RE: 30 MHz ~ 6 GHz<br>CE: 150 kHz ~ 30 MHz<br>CS: 150 kHz ~ 80 MHz<br>EFT: ±2 kV<br>Surge: ±1 kV, ±2 kV<br>RS: 80 MHz ~ 6 GHz<br>ESD: ±6 kV(Contact discharge), ±8 kV(Air discharge)                                                                                                 | 소재지 | N    |
| IEC 62236-4:2018    | 산업용 전기기기 | Railway applications - Electromagnetic compatibility - Part 4: Emission and immunity of the signalling and telecommunications apparatus                                                                                                                                  | RE: 30 MHz ~ 6 GHz<br>CE: 150 kHz ~ 30 MHz<br>DCE : 150 kHz ~ 30 MHz<br>ESD: ±6 kV(Contact discharge), ±8 kV(Air discharge)<br>RS: 80 MHz ~ 6 GHz<br>Magnetic field: ≤300 A/m<br>CS: 150 kHz ~ 80 MHz<br>EFT: ±2 kV<br>SURGE: ±2 Kv                                                  | 소재지 | N    |
| IEC 80601-2-26:2019 | 의료기기     | Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic disturbances - Requirements and tests | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질 | 규격명                                                                                                                                                                                                                                                                                              | 시험범위                                                                                                                                                                                                                                                                                 | 사업장 | 현장시험 |
|-------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 80601-2-30:2018           | 의료기기    | Medical electrical equipment - Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic disturbances - Requirements and tests | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 80601-2-49:2018+AMD1:2024 | 의료기기    | Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic disturbances - Requirements and tests           | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| IEC 80601-2-60:2019           | 의료기기    | Medical electrical equipment - Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS                                                                                      | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질           | 규격명                                                                                                                                                                                                                                                                                                                            | 시험범위                                                                                                                                                                                                                                                                                 | 사업장    | 현장시험 |
|-------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|
| IEC 80601-2-77:2019           | 의료기기              | Medical electrical equipment - Part 2-77: Particular requirements for the BASIC SAFETY and essential performance of ROBOTICALLY ASSISTED SURGICAL EQUIPMENT<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic disturbances - Requirements and tests                                | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지    | N    |
| IEC 80601-2-78:2019+AMD1:2024 | 의료기기              | Medical electrical equipment - Part 2-78: Particular requirements for basic safety and essential performance of medical robots for rehabilitation, assessment, compensation or alleviation<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic disturbances - Requirements and tests | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지    | N    |
| IEEE Std 299:2006             | 가정용 전기기기 산업용 전기기기 | IEEE Standard Method for Measuring the Effectiveness of Electromagnetic Shielding Enclosures                                                                                                                                                                                                                                   | Measurement frequency:9 kHz ~ 18 GHz                                                                                                                                                                                                                                                 | 소재지    | Y    |
| ISO 10605:2008                | 유/무선 통신기기         | Road vehicles – Test methods for electrical disturbances from electrostatic discharge                                                                                                                                                                                                                                          | ESD: below ±25 kV(Air)<br>below ±25 kV(Contact)                                                                                                                                                                                                                                      | 부속시설-2 | N    |
| ISO 10605:2023                | 유무선 통신기기          | Road vehicles – Test methods for electrical disturbances from electrostatic discharge                                                                                                                                                                                                                                          | ESD: below ±25 kV (Air), below ±25 kV (Contact)                                                                                                                                                                                                                                      | 소재지    | N    |
| ISO 11452-2:2019              | 유/무선 통신기기         | Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 2:Absorber-lined shielded enclosure                                                                                                                                                                  | 80 MHz ~ 18 GHz,<br>≤ 200 V/m                                                                                                                                                                                                                                                        | 소재지    | N    |

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제 KT197호

| 규격번호             | 제품 및 물질   | 규격명                                                                                                                                                                                           | 시험범위                | 사업장    | 현장시험 |
|------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------|------|
| ISO 11452-2:2019 | 유/무선 통신기기 | Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 2: Absorber-lined shielded enclosure                                | 20 MHz ~ 6 GHz      | 부속시설-2 | N    |
| ISO 11452-4:2020 | 유/무선 통신기기 | Road Vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 4: Harness excitation methods<br>[exception]<br>6.2 TWC Test Method | 100 kHz ~ 400 MHz   | 부속시설-2 | N    |
| ISO 11452-4:2020 | 유무선 통신기기  | Road Vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 4: Harness excitation methods<br>[exception] 6.2 TWC Test Method    | 100 kHz ~ 400 MHz   | 소재지    | N    |
| ISO 11452-8:2015 | 유/무선 통신기기 | Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 8: Immunity to magnetic fields                                      | DC, 15 Hz ~ 150 kHz | 소재지    | N    |
| ISO 11452-8:2015 | 유/무선 통신기기 | Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 8: Immunity to magnetic fields                                      | DC 15 Hz ~ 150 kHz  | 부속시설-2 | N    |
| ISO 11452-9:2021 | 유/무선 통신기기 | Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy Part 9: Portable transmitters                                              | 26 MHz ~ 5 850 MHz  | 부속시설-2 | N    |

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제 KT197호

| 규격번호             | 제품 및 물질   | 규격명                                                                                                                                                                                    | 시험범위                             | 사업장    | 현장시험 |
|------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------|------|
| ISO 11452-9:2021 | 유/무선 통신기기 | Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy Part 9:Portable transmitters                                        | 26 Mhz ~ 5 850 Mhz               | 소재지    | N    |
| ISO 16750-2:2012 | 유/무선 통신기기 | Road vehicles – Environmental conditions and testing for electrical and electronic equipment – Part2:Electrical loads                                                                  | Power voltage: 0 V ~ 230 V       | 부속시설-2 | N    |
| ISO 16750-2:2012 | 유무선 통신기기  | Road vehicles – Environmental conditions and testing for electrical and electronic equipment – Part2:Electrical loads                                                                  | Power voltage: 0 V ~ 230 V       | 소재지    | N    |
| ISO 7637-2:2011  | 유/무선 통신기기 | Road vehicles – Electrical disturbances from conduction and coupling – Part 2:Electrical transient conduction along supply lines only                                                  | TI : - 600 V ~ 200 V             | 부속시설-2 | N    |
| ISO 7637-2:2011  | 유무선 통신기기  | Road vehicles – Electrical disturbances from conduction and coupling – Part 2:Electrical transient conduction along supply lines only                                                  | TI : - 600 V ~ 200 V             | 소재지    | N    |
| ISO 7637-3:2016  | 유/무선 통신기기 | Road vehicles – Electrical disturbances from conduction and coupling – Part 3:Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines | TI signal lines: - 150 V ~ 150 V | 부속시설-2 | N    |
| ISO 7637-3:2016  | 유무선 통신기기  | Road vehicles–Electrical disturbances from conduction and coupling –Part 3:Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines.   | TI signal lines:- 150 V ~ 150 V, | 소재지    | N    |

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# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                          | 제품 및 물질            | 규격명                                                                                                                                                                                                                                                                                                       | 시험범위                                                                                                                                                                                                                                                                                 | 사업장 | 현장시험 |
|-------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| ISO 80601-2-56:2017+AMD1:2018 | 의료기기               | Medical electrical equipment - Part 2-56 Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic disturbances - Requirements and tests | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| ISO 80601-2-61:2017           | 의료기기               | Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment<br>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS<br>202 Electromagnetic disturbances - Requirements and tests                              | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI : -600 ~ 200V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |
| KS C 9040-2:2017              | 산업용 전기기기           | 무정전전원장치(UPS) -제 2부:전자파적합성(EMC) 요구사항                                                                                                                                                                                                                                                                       | RE:30 MHz ~ 1 GHz,<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 1 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:30 A/m                                                                                                                  | 소재지 | N    |
| KS C 9547:2020                | 조명기기               | 일반 조명기기 - 전자파적합성(EMC) 내성 요구사항                                                                                                                                                                                                                                                                             | ESD:±8 kV(Air),<br>±4 kV(Contact)<br>RS:80 MHz ~ 1 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:3 A/m<br>V-DIP:(0 ~ 100) %                                                                                                                                          | 소재지 | N    |
| KS C 9610-3-2:2023            | 가정용 전기기기, 산업용 전기기기 | 전자파적합성(EMC) - 제 3-2부:허용기준-고조파 전류의 허용기준(상당 입력 전류 16 A이하 기기)                                                                                                                                                                                                                                                | 16 A 이하                                                                                                                                                                                                                                                                              | 소재지 | N    |

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제 KT197호

| 규격번호                | 제품 및 물질            | 규격명                                                                               | 시험범위                                                                                                                                         | 사업장 | 현장시험 |
|---------------------|--------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KS C 9610-3-3:2023  | 가정용 전기기기, 산업용 전기기기 | 전자파적합성(EMC) - 제 3-3부:허용기준 - 공공 저압 배전망에 사용하는 기기의 플리커와 전압변동에 대한 허용기준(상당 16 A 이하 기기) | 16 A 이하                                                                                                                                      | 소재지 | N    |
| KS C 9610-4-11:2020 | 가정용 전기기기, 산업용 전기기기 | 전자파적합성(EMC) - 제 4-11부:시험 및 측정기술 - 전압 강하, 순간 정전, 전압 변동 내성 시험                       | V-DIP:(0 ~ 100) %                                                                                                                            | 소재지 | N    |
| KS C 9610-4-2:2017  | 가정용 전기기기, 산업용 전기기기 | 전자파적합성(EMC) - 제 4-2부:시험 및 측정기술 - 정전기 방전 내성 시험                                     | ESD:±30 kV 이하                                                                                                                                | 소재지 | N    |
| KS C 9610-4-3:2017  | 가정용 전기기기, 산업용 전기기기 | 전자파적합성(EMC) - 제 4-3부:시험 및 측정기술 - 방사성 RF 전자기장 내성 시험                                | RS:80 MHz ~ 6 GHz                                                                                                                            | 소재지 | Y    |
| KS C 9610-4-4:2020  | 가정용 전기기기, 산업용 전기기기 | 전자파적합성(EMC) - 제 4-4부:시험 및 측정기술 - 전기적 빠른 과도현상, 버스트 내성 시험                           | EFT:±4 kV 이하                                                                                                                                 | 소재지 | N    |
| KS C 9610-4-5:2023  | 가정용 전기기기, 산업용 전기기기 | 전자파적합성(EMC) - 제 4-5부:시험 및 측정기술 - 서지 내성 시험                                         | SURGE:±6 kV 이하                                                                                                                               | 소재지 | N    |
| KS C 9610-4-6:2020  | 가정용 전기기기, 산업용 전기기기 | 전자파적합성(EMC) - 제 4-6부:시험 및 측정기술 - 전도성 RF 전자기장 내성 시험                                | CS:150 kHz ~ 230 MHz,                                                                                                                        | 소재지 | N    |
| KS C 9610-4-8:2017  | 가정용 전기기기, 산업용 전기기기 | 전자파적합성(EMC) - 제 4-8부:시험 및 측정기술 - 전원 주파수 자기장 내성 시험                                 | MF:100 A/m 이하                                                                                                                                | 소재지 | N    |
| KS C 9610-6-1:2019  | 가정용 전기기기           | 전자파적합성(EMC) - 제 6-1부:일반표준 - 주거, 상업 및 경공업 환경에서 사용하는 기기의 전자파 내성 표준                  | ESD:±8 kV(Air),<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:3 A/m<br>V-DIP:(0 ~ 100) %  | 소재지 | N    |
| KS C 9610-6-2:2019  | 산업용 전기기기           | 전자파적합성(EMC) - 제 6-2부:일반표준 - 산업 환경에서 사용하는 기기의 전자파 내성 표준                            | ESD:±8 kV(Air),<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:30 A/m<br>V-DIP:(0 ~ 100) % | 소재지 | N    |

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제 KT197호

| 규격번호               | 제품 및 물질           | 규격명                                                                                                           | 시험범위                                                                                                                             | 사업장 | 현장시험 |
|--------------------|-------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KS C 9610-6-3:2023 | 가정용 전기기기          | 전자파적합성(EMC) - 제 6-3부: 일반표준 - 주거용, 상업용 및 경공업 환경에서의 전자파 방출 표준                                                   | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>DCE:150 kHz ~ 30 MHz                                                                 | 소재지 | N    |
| KS C 9610-6-4:2022 | 산업용 전기기기          | 전자파적합성(EMC) - 제 6-4부: 일반기준 - 산업 환경에서 사용하는 기기의 전자파 방해 표준                                                       | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>DCE:150 kHz ~ 30 MHz                                                                 | 소재지 | N    |
| KS C 9811:2019     | 산업용 전기기기, 의료기기    | 산업, 과학, 의료용(ISM) 기기 - 무선 주파수 방해 특성 - 허용기준 및 측정방법<br>[제외항목] 7.6.10 계통 연계형 전력 변환 장치 (태양광 발전용 전력 변환기) 3상 결선 시험품) | RE:9 kHz ~ 18 GHz CE:9 kHz ~ 30 MHz                                                                                              | 소재지 | N    |
| KS C 9814-1:2022   | 가정용 전기기기          | 전자파적합성(EMC) - 가정용 전기기기, 전동 공구 및 유사기기의 요구사항 - 제 1부: 방출                                                         | RE:9 kHz ~ 6 GHz<br>CE:9 kHz ~ 30 MHz<br>DCE:150 kHz ~ 30 MHz<br>Disturbance Power: 30 MHz ~ 300 MHz                             | 소재지 | N    |
| KS C 9814-2:2022   | 가정용 전기기기          | 전자파적합성(EMC) - 가정용 전기기기, 전동 공구 및 유사기기의 요구사항 - 제 2부: 내성                                                         | ESD:±30 kV(Air)<br>±25 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 230 MHz<br>V-DIP:(0 ~ 100) % | 소재지 | N    |
| KS C 9815:2023     | 유/무선 통신기기         | 조명 기기 및 유사 기기의 무선 방해 특성의 허용기준 및 측정 방법<br>[제외항목] 4.2 삽입손실                                                      | RE:9 kHz ~ 1000 MHz<br>CE:9 kHz ~ 30 MHz                                                                                         | 소재지 | N    |
| KS C 9816-1-4:2020 | 가정용 전기기기 산업용 전기기기 | 전자파 방해 및 내성 측정 장비와 측정방법 - 제 1-4부: 전자파 방해 및 내성 측정장비 - 방사성 방해 측정용 안테나 및 시험장                                     | RE:30 MHz ~ 18 GHz                                                                                                               | 소재지 | Y    |
| KS C 9832:2023     | 유/무선 통신기기         | 멀티미디어기기 전자파적합성 - 방출 요구사항                                                                                      | RE:30 MHz ~ 6 GHz,<br>CE:150 kHz ~ 30 MHz<br>Disturbance Voltage:30MHz ~ 2 150 MHz                                               | 소재지 | N    |
| KS C 9832:2024     | 유/무선 통신기기         | 멀티미디어 기기 전자파 방해방지 시험방법                                                                                        | RE:30 MHz ~ 6 GHz,<br>CE:150 kHz ~ 30 MHz<br>Disturbance Voltage:30MHz ~ 2 150 MHz                                               | 소재지 | N    |

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제 KT197호

| 규격번호                    | 제품 및 물질  | 규격명                                                                  | 시험범위                                                                                                                                                                                                                                                                          | 사업장 | 현장시험 |
|-------------------------|----------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KS C 9835:2019          | 유무선 통신기기 | 멀티미디어 기기 전자파 내성 시험방법                                                 | ESD:±8 kV(Air),<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±4 kV<br>CS:150 kHz ~ 80 MHz<br>MF:60 Hz, 1 A/m<br>V-DIP:(0 ~ 100) %                                                                                                                             | 소재지 | N    |
| KS C 9990:2017          | 유무선 통신기기 | 자동차 및 내연기관 구동 기기류 전자파적합성 (EMC) 시험방법 [제외항목] 스트립선로 시험, 회전자기 (TEM) 셀시험  | 전원선의 과도전도 내성 전압:<br>- 600 V ~ 200 V<br>RE:30 MHz ~ 1 GHz<br>CE:0.15 MHz ~ 30 MHz<br>Harmonic Current Emission:<br>16 A 이하<br>Voltage Fluctuation and Flicker:16 A 이하<br>EFT:±2 kV<br>RS:20 MHz ~ 2 000 MHz<br>SURGE:±2 kV                                                     | 소재지 | N    |
| KS C 9995:2021          | 유무선 통신기기 | 차량용 무선기기와 차량에 탑재되는 시장유통 전기, 전자 단위부품에 대한 전자파적합성 요구사항                  | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air),<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI : - 600 V ~ 200 V                                                                            | 소재지 | N    |
| KS C IEC 60601-1-2:2014 | 의료기기     | 의료용 전기기기 - 제1-2부:기본 안전 및 필수 성능에 관한 일반 요구사항 - 보조표준:전자파 장애 - 요구사항 및 시험 | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 2.5 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>MF:3 A/m                                                                                                                                   | 소재지 | N    |
| KS C IEC 60601-1-2:2020 | 의료기기     | 의료용 전기기기 - 제1-2부:기본 안전 및 필수 성능에 관한 일반 요구사항 - 보조표준:전자파 장애 - 요구사항 및 시험 | RE:30 MHz ~ 18 GHz<br>CE:9 kHz ~ 30 MHz<br>Harmonics:16 A 이하<br>Flicker:16 A 이하<br>ESD:±15 kV(Air)<br>±8 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:30 A/m<br>V-DIP:(0 ~ 100) %<br>TI:-600 V ~ 200 V<br>PMF:10 kHz ~ 13.56 MHz | 소재지 | N    |

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| 규격번호                    | 제품 및 물질  | 규격명                                                   | 시험범위                                                                                                                                                                                     | 사업장 | 현장시험 |
|-------------------------|----------|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KS C IEC 60947-1:2017   | 산업용전기기기  | 저압 개폐장치 및 제어장치 - 제1부:일반 규정                            | RE:30 MHz ~ 1 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 2.7 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>MF:30 A/m | 소재지 | N    |
| KS C IEC 60947-2:2022   | 산업용전기기기  | 저압 개폐장치 및 제어장치 - 제2부:차단기                              | RE:30 MHz ~ 1 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±4 kV<br>SURGE:±4 kV<br>CS:150 kHz ~ 80 MHz V-DIP:(0~100) %<br>MF:30 A/m        | 소재지 | N    |
| KS C IEC 60947-4-1:2022 | 산업용전기기기  | 저전압 개폐장치 및 제어장치 - 제4-1부:접촉기 및 모터기동기 - 전자식 접촉기 및 모터기동기 | RE:30 MHz ~ 1 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 2.7 GHz<br>EFT:±4 kV<br>SURGE:±4 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>MF:30 A/m | 소재지 | N    |
| KS C IEC 62236-3-2:2018 | 산업용 전기기기 | 철도 적용 - 전자기 적합성 - 제3-2부: 철도 차량 - 기기                   | CE:150 kHz ~ 30 MHz<br>RE:30 MHz ~ 6 GHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz,<br>EFT:±2 kV<br>CS:150 kHz ~ 80 MHz<br>SURGE:±4 kV                                    | 소재지 | N    |
| KS C IEC 62236-4:2018   | 산업용 전기기기 | 철도 적용 - 전자기 적합성 - 제4부: 신호 및 통신 기기의 방출 및 내성            | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>MF:100 A/m<br>Impulse MF:300 A/m  | 소재지 | N    |

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제 KT197호

| 규격번호           | 제품 및 물질   | 규격명                                    | 시험범위                                                                                                                                                                                                                              | 사업장 | 현장시험 |
|----------------|-----------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KS X 3124:2020 | 유무선 통신기기  | 무선기기의 공통 전자파적합성 시험방법                   | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V<br>12 V, 24 V SYSTEM (ISO 7637-2) | 소재지 | N    |
| KS X 3124:2024 | 유/무선 통신기기 | 무선기기의 공통 전자파적합성 시험 방법                  | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V<br>12 V, 24 V SYSTEM (ISO 7637-2) | 소재지 | N    |
| KS X 3125:2020 | 유무선 통신기기  | 특정 소출력 무선기기 전자파적합성 시험 방법               | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V                                   | 소재지 | N    |
| KS X 3125:2024 | 유/무선 통신기기 | 특정 소출력 무선기기 전자파적합성 시험 방법               | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V                                   | 소재지 | N    |
| KS X 3126:2020 | 유무선 통신기기  | 무선 데이터 통신 시스템용 특정 소출력 무선기기 전자파적합성 시험방법 | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V                                   | 소재지 | N    |

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| 규격번호           | 제품 및 물질   | 규격명                                    | 시험범위                                                                                                                                                                                            | 사업장 | 현장시험 |
|----------------|-----------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KS X 3126:2024 | 유/무선 통신기기 | 무선 데이터 통신 시스템용 특정 소출력 무선기기 전자파적합성 시험방법 | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| KS X 3127:2014 | 유무선 통신기기  | 간이 무선국 전자파 적합성 시험방법                    | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| KS X 3127:2024 | 유/무선 통신기기 | 간이 무선국 및 TETRA 전자파적합성 시험방법             | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| KS X 3128:2014 | 유무선 통신기기  | 디지털 코드 없는 전화기 전자파 적합성 시험방법             | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| KS X 3128:2024 | 유/무선 통신기기 | 디지털 코드 없는 전화기 전자파적합성 시험방법              | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |

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제 KT197호

| 규격번호           | 제품 및 물질   | 규격명                                      | 시험범위                                                                                                                                                                                            | 사업장 | 현장시험 |
|----------------|-----------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KS X 3129:2020 | 유무선 통신기기  | 이동통신 단말기 및 보조기기의 전자파적합성시험 방법             | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| KS X 3130:2014 | 유무선 통신기기  | 음성 및 음향 신호 전송용 특정 소출력 무선기기 전자파 적합성 시험 방법 | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| KS X 3130:2024 | 유/무선 통신기기 | 음성 및 음향 신호 전송용 특정 소출력 무선기기 전자파 적합성 시험 방법 | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| KS X 3131:2014 | 유무선 통신기기  | 생활 무전기 전자파 적합성 시험 방법                     | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| KS X 3131:2024 | 유/무선 통신기기 | 생활 무전기 전자파적합성 시험 방법                      | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |

한국인정기구(KOLAS)는 국제시험기관인정협력체(ILAC)의 상호인정협정(MRA) 서명기구입니다.

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호           | 제품 및 물질   | 규격명                              | 시험범위                                                                                                                                                                                              | 사업장 | 현장시험 |
|----------------|-----------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KS X 3132:2014 | 유무선 통신기기  | TRS 기기 전자파 적합성 시험 방법             | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V   | 소재지 | N    |
| KS X 3134:2014 | 유무선 통신기기  | 체내이식 무선의료기기 전자파적합성 시험방법          | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±6 kV(Contact)<br>RS:80 MHz ~ 2.5 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| KS X 3134:2024 | 유/무선 통신기기 | 체내 이식 무선 의료기기 전자파적합성 시험방법        | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±6 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V   | 소재지 | N    |
| KS X 3135:2020 | 유무선 통신기기  | 이동통신 기지국, 중계기, 보조기기의 전자파적합성 시험방법 | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V   | 소재지 | N    |
| KS X 3136:2014 | 유무선 통신기기  | 아마추어 무선국 기기 전자파 적합성 시험 방법        | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V   | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호           | 제품 및 물질             | 규격명                        | 시험범위                                                                                                                                                                                            | 사업장 | 현장시험 |
|----------------|---------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KS X 3136:2024 | 유/무선 통신기기           | 아마추어 무선국 기기 전자파 적합성 시험방법   | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| KS X 3137:2014 | 유무선 통신기기            | 무선 호출용 기기의 전자파 적합성 시험 방법   | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| KS X 3137:2024 | 유/무선 통신기기           | 무선 호출용 기기 전자파 적합성 시험 방법    | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| KS X 3139:2014 | 유무선 통신기기            | 이동 위성 업무 기기의 전자파 적합성 시험 방법 | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| KS X 3139:2024 | 유/무선 통신기기           | 이동 위성 업무기기의 전자파적합성 시험 방법   | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>V-DIP:(0 ~ 100) %<br>TI: -600 V ~ 200 V | 소재지 | N    |
| KS X 3143:2020 | 유/무선 통신기기, 가정용 전기기기 | 가정용 무선 전력 전송기기 전자파장해 시험방법  | RE:9 kHz ~ 1 GHz<br>CE:150 kHz ~ 30 MHz                                                                                                                                                         | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                   | 제품 및 물질              | 규격명                                                                                                                                                                                                                                                                                | 시험범위                                         | 사업장 | 현장시험 |
|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----|------|
| MIL-STD-188-125-1:1998 | 가정용 전기기기<br>산업용 전기기기 | HIGH-ALTITUDE<br>ELECTROMAGNETIC<br>PULSE (HEMP)<br>PROTECTION FOR<br>GROUND-BASED C4I<br>FACILITIES<br>PERFORMING CRITICAL,<br>TIME-URGENT<br>MISSIONS<br>PART 1<br>FIXED FACILITIES<br>[Exception]<br>Appendix B<br>PULSED CURRENT<br>INJECTION (PCI) TEST<br>PROCEDURES         | Measurement<br>frequency: 10 kHz ~ 1<br>GHz  | 소재지 | Y    |
| MIL-STD-188-125-1:2005 | 가정용 전기기기<br>산업용 전기기기 | HIGH-ALTITUDE<br>ELECTROMAGNETIC<br>PULSE (HEMP)<br>PROTECTION FOR<br>GROUND-BASED C4I<br>FACILITIES<br>PERFORMING CRITICAL,<br>TIME-URGENT<br>MISSIONS PART 1<br>FIXED FACILITIES<br>[Exception]<br>Appendix B PULSED<br>CURRENT INJECTION<br>(PCI) TEST<br>PROCEDURES            | Measurement<br>frequency : 10 kHz ~ 1<br>GHz | 소재지 | Y    |
| MIL-STD-188-125-2:1999 | 가정용 전기기기<br>산업용 전기기기 | HIGH-ALTITUDE<br>ELECTROMAGNETIC<br>PULSE (HEMP)<br>PROTECTION FOR<br>GROUND-BASED C4I<br>FACILITIES<br>PERFORMING CRITICAL,<br>TIME-URGENT<br>MISSIONS<br>PART 2<br>TRANSPORTABLE<br>SYSTEMS<br>[Exception]<br>Appendix B<br>PULSED CURRENT<br>INJECTION (PCI) TEST<br>PROCEDURES | Measurement<br>frequency: 10 kHz ~ 1<br>GHz  | 소재지 | Y    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                   | 제품 및 물질              | 규격명                                                                                                                                                                                                                                            | 시험범위                                                                             | 사업장 | 현장시험 |
|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----|------|
| MIL-STD-188-125-2:2005 | 가정용 전기기기<br>산업용 전기기기 | HIGH-ALTITUDE ELECTROMAGNETIC PULSE (HEMP) PROTECTION FOR GROUND-BASED C4I FACILITIES<br>PERFORMING CRITICAL, TIME-URGENT MISSIONS PART 2<br>TRANSPORTABLE SYSTEMS<br>[Exception]<br>Appendix B PULSED CURRENT INJECTION (PCI) TEST PROCEDURES | Measurement frequency : 10 kHz ~ 1 GHz                                           | 소재지 | Y    |
| MIL-STD-461D:1993      | 산업용 전기기기             | Requirements for the Control of Electromagnetic Interference emissions and susceptibility<br>[exception] 5.3.8 CS109, 5.3.14 RE103, 5.3.16 RS103(10 kHz to 100 MHz, 200 V/m), 5.3.17 RS105                                                     | RE:30 Hz ~ 18 GHz<br>CE:30 Hz ~ 40 GHz<br>RS:30 Hz ~ 40 GHz<br>CS:30 Hz ~ 20 GHz | 소재지 | N    |
| MIL-STD-461E:1999      | 산업용 전기기기             | Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment<br>[exception]<br>5.11 CS109<br>5.17 RE103<br>5.19 RS103<br>(2 MHz to 100 MHz, 200 V/m)<br>5.20 RS105                                 | RE:30 Hz ~ 18 GHz<br>CE:30 Hz ~ 40 GHz<br>RS:30 Hz ~ 40 GHz<br>CS:30 Hz ~ 20 GHz | 소재지 | N    |
| MIL-STD-461F:2007      | 산업용 전기기기             | Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment<br>[exception]<br>5.12 CS109<br>5.18 RE103<br>5.20 RS103<br>(2 MHz to 100 MHz, 200 V/m)<br>5.21 RS105                                 | RE:30 Hz ~ 18 GHz<br>CE:30 Hz ~ 40 GHz<br>RS:30 Hz ~ 40 GHz<br>CS:30 Hz ~ 20 GHz | 소재지 | N    |

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제 KT197호

| 규격번호              | 제품 및 물질              | 규격명                                                                                                                                                                                                                          | 시험범위                                                                                                                            | 사업장 | 현장시험 |
|-------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----|------|
| MIL-STD-461G:2015 | 산업용 전기기기             | REQUIREMENTS FOR THE CONTROL OF ELECTROMAGNETIC INTERFERENCE CHARACTERISTICS OF SUBSYSTEMS AND EQUIPMENT<br>[exception]<br>5.11 CS109,<br>5.15 CS117,<br>5.19 RE103,<br>5.21 RS103(2 MHz to 100 MHz, 200 V/m),<br>5.22 RS105 | RE:30 Hz ~ 18 GHz<br>CE:30 Hz ~ 40 GHz<br>RS:30 Hz ~ 40 GHz<br>CS:30 Hz ~ 20 GHz<br>CS118: ±15 kV                               | 소재지 | N    |
| MIL-STD-462D:1993 | 산업용 전기기기             | Measurement of electromagnetic interference characteristics<br>[exception]<br>CS109, RE103 RS105                                                                                                                             | RE:30 Hz ~ 18 GHz<br>CE:30 Hz ~ 40 GHz<br>RS:30 Hz ~ 40 GHz<br>CS:30 Hz ~ 20 GHz                                                | 소재지 | N    |
| MIL-STD-704F:2016 | 산업용 전기기기             | DEPARTMENT OF DEFENSE INTERFACE STANDARD AIRCRAFT ELECTRIC POWER CHARACTERISTICS                                                                                                                                             | SAC:400 Hz, 115 V<br>TAC:400 Hz, 115 V<br>SVF, TVF:Variable Frequency, 115 V<br>SXF:60 Hz, 115 V<br>LDC:DC 28 V<br>HDC:DC 270 V | 소재지 | N    |
| SANS 211:2010     | 가정용 전기기기<br>산업용 전기기기 | Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement                                                                                               | RE:9 kHz ~ 18 GHz, CE:9 kHz ~ 30 MHz                                                                                            | 소재지 | N    |
| SANS 213:2011     | 유무선 통신기기             | Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement                                                                                    | RE:30 MHz ~ 1 GHz,<br>Differential voltage:<br>30 MHz ~ 2 150 MHz<br>Radiated Power:<br>0.9 GHz ~ 18 GHz                        | 소재지 | N    |
| SANS 214-1:2020   | 가정용 전기기기             | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Part 1:Emission                                                                                                  | RE:9 kHz ~ 1 GHz,<br>CE:9 kHz ~ 30 MHz<br>DCE:150 kHz ~ 30 MHz<br>Disturbance Power:<br>30 MHz ~ 300 MHz                        | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호            | 제품 및 물질  | 규격명                                                                                                                                                                                                                                                                                                                                                                                                  | 시험범위                                                                                                                                         | 사업장 | 현장시험 |
|-----------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| SANS 214-2:2009 | 가정용 전기기기 | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Part 2:Immunity - Product family standard                                                                                                                                                                                                                                                | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 1 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 230 MHz V-DIP:(0 ~ 100) %                  | 소재지 | N    |
| SANS 215:2019   | 조명기기     | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [exception] 4.2 Insertion loss                                                                                                                                                                                                                                                   | RE:9 kHz ~ 1 GHz, CE:9 kHz ~ 30 MHz                                                                                                          | 소재지 | N    |
| SANS 224:2010   | 유무선 통신기기 | Information technology equipment - Immunity characteristics - Limits and methods of measurement [exception] 3 phase connection equipment                                                                                                                                                                                                                                                             | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 1.0 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:1 A/m<br>V-DIP:(0 ~ 100) % | 소재지 | N    |
| SANS 225:2019   | 유무선 통신기기 | Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers.<br><br>[exception]<br>5 Measurement of emissions received by an antenna on the same vehicle<br>6.6 Radiated emissions from components/modules. TEM cell method<br>6.7 Radiated emissions from components/module. Strip line method | RE:150 kHz ~ 2.5 GHz<br>CE(VOLTAGE METHOD):150 kHz ~ 108 MHz<br>CE(CURRENT METHOD):150 kHz ~ 245 MHz                                         | 소재지 | Y    |
| SANS 2332:2017  | 유무선 통신기기 | Electromagnetic compatibility of multimedia equipment - Emission Requirements                                                                                                                                                                                                                                                                                                                        | RE:30 MHz ~ 6 GHz,<br>CE:150 kHz ~ 30 MHz,<br>Differential voltage:30 MHz ~ 2 150 MHz                                                        | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                 | 제품 및 물질           | 규격명                                                                                                                                                                                                                                                                                                        | 시험범위                                                                                                                                         | 사업장 | 현장시험 |
|----------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| SANS 2335:2018       | 유무선 통신기기          | Electromagnetic compatibility of multimedia equipment – Immunity requirements [exception]<br>3 phase connection equipment<br>Table 2 - Immunity requirements for analogue/digital data ports:<br>2.2 Broadband impulse noise disturbances repetitive<br>2.3 Broadband impulse noise disturbances, isolated | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 6.0 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:1 A/m<br>V-DIP:(0 ~ 100) % | 소재지 | N    |
| SANS 61000-3-2:2009  | 가정용 전기기기          | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)                                                                                                                                                                  | below 16 A                                                                                                                                   | 소재지 | N    |
| SANS 61000-3-3:2009  | 가정용 전기기기          | Electromagnetic compatibility (EMC) - Part 3-3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection                                                          | below 16 A                                                                                                                                   | 소재지 | N    |
| SANS 61000-4-11:2005 | 가정용 전기기기 산업용 전기기기 | Electromagnetic compatibility(EMC) - Part 4-11: Testing and measurement techniques-Voltage dips, short interruptions and voltage variations immunity tests                                                                                                                                                 | V-DIP:(0 ~ 100) %                                                                                                                            | 소재지 | N    |
| SANS 61000-4-2:2009  | 가정용 전기기기 산업용 전기기기 | Electromagnetic compatibility (EMC)- Part 4-2: Testing and measurement techniques- Electrostatic discharge immunity test                                                                                                                                                                                   | below ±30 kV                                                                                                                                 | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질              | 규격명                                                                                                                                                        | 시험범위                    | 사업장 | 현장시험 |
|---------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----|------|
| SANS 61000-4-3:2008 | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test        | RS: 80 MHz ~ 6 GHz      | 소재지 | N    |
| SANS 61000-4-4:2011 | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test                         | EFT: below $\pm 4$ kV   | 소재지 | N    |
| SANS 61000-4-5:2006 | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test                                                   | SURGE: below $\pm 6$ kV | 소재지 | N    |
| SANS 61000-4-6:2009 | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields | CS: 150 kHz ~ 230 MHz   | 소재지 | N    |
| SANS 61000-4-6:2017 | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields | CS: 150 kHz ~ 230 MHz   | 소재지 | N    |
| SANS 61000-4-8:2009 | 가정용 전기기기<br>산업용 전기기기 | Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test                          | M/F: below 100 A/m      | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                | 제품 및 물질              | 규격명                                                                                                                                                                                | 시험범위                                                                                                                                          | 사업장 | 현장시험 |
|---------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| SANS 61000-6-1:2005 | 가정용 전기기기             | Electromagnetic compatibility (EMC)- Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments [exception] 3 phase connection equipment | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 2.7 GHz<br>EFT:±1 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:3 A/m<br>V-DIP:(0 ~ 100) %  | 소재지 | N    |
| SANS 61000-6-2:2005 | 산업용 전기기기             | Electromagnetic compatibility (EMC)- Part 6-2 :Generic standards - Immunity for residential, commercial and light-industrial environments [exception] 3 phase connection equipment | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 2.7 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:30 A/m<br>V-DIP:(0 ~ 100) % | 소재지 | N    |
| SANS 61000-6-3:2011 | 가정용 전기기기             | Electromagnetic compatibility (EMC)- Part 6-3 : Generic standards - Emission standard for residential, commercial and light - industrial environments                              | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>DCE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A                              | 소재지 | N    |
| SANS 61000-6-4:2011 | 산업용 전기기기             | Electromagnetic compatibility (EMC)- Part 6-4 :Generic standards - Emission standard for industrial environments                                                                   | RE:30 MHz ~ 6 GHz<br>CE:150 kHz ~ 30 MHz<br>DCE:150 kHz ~ 30 MHz<br>Harmonics: below 16 A<br>Flicker: below 16 A                              | 소재지 | N    |
| SANS 61547:2012     | 조명기기                 | Equipment for general lighting purposes - EMC immunity requirements                                                                                                                | ESD:±8 kV(Air)<br>±4 kV(Contact)<br>RS:80 MHz ~ 1 GHz<br>EFT:±2 kV<br>SURGE:±2 kV<br>CS:150 kHz ~ 80 MHz<br>M/F:3 A/m<br>V-DIP:(0 ~ 100) %    | 소재지 | N    |
| VCCI 32-1-2:2016    | 가정용 전기기기<br>산업용 전기기기 | VALIDATION OF TEST SITES FOR RADIATED EMISSION MEASUREMENTS                                                                                                                        | RE:30 MHz ~ 18 GHz                                                                                                                            | 소재지 | Y    |
| VCCI-CISPR 32:2016  | 유/무선 통신기기            | Electromagnetic compatibility of multimedia equipment - Emission Requirements                                                                                                      | RE:30 MHz ~ 6 GHz,<br>CE:150 kHz ~ 30 MHz<br>Differential voltage:<br>30 MHz ~ 2 150 MHz                                                      | 소재지 | N    |

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## 03. 전기시험

### 03.012 소프트웨어

| 규격번호                                 | 제품 및 물질 | 규격명                                                                                                                                                                                                                 | 시험범위 | 사업장 | 현장 시험 |
|--------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|-------|
| EN 18031-1:2024                      | 소프트웨어   | Common security requirements for radio equipment - Part 1: Internet connected radio equipment                                                                                                                       | -    | 소재지 | Y     |
| EN 18031-2:2024                      | 소프트웨어   | Common security requirements for radio equipment - Part 2: radio equipment processing data, namely Internet connected radio equipment, childcare radio equipment, toys radio equipment and wearable radio equipment | -    | 소재지 | Y     |
| EN 18031-3:2024                      | 소프트웨어   | Common security requirements for radio equipment - Part 3: Internet connected radio equipment processing virtual money or monetary value                                                                            | -    | 소재지 | Y     |
| EN 50716:2023                        | 소프트웨어   | Railway Applications. Requirements for software development. - Table A.12                                                                                                                                           | -    | 소재지 | Y     |
| IEC 60335-1:2010+AMD1:2013+AMD2:2016 | 소프트웨어   | Household and similar electrical appliances - Safety - Part 1: General requirements<br>Annex R Software evaluation                                                                                                  | -    | 소재지 | Y     |
| IEC 60335-1:2020                     | 소프트웨어   | Household and similar electrical appliances - Safety - Part 1: General requirements<br>Annex R Software evaluation                                                                                                  | -    | 소재지 | Y     |
| IEC 60730-1:2013                     | 소프트웨어   | Automatic electrical controls - Part 1: General requirements<br>Annex H Requirements for electronic controls                                                                                                        | -    | 소재지 | Y     |

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| 규격번호                       | 제품 및 물질 | 규격명                                                                                                                                         | 시험범위 | 사업장 | 현장시험 |
|----------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|
| IEC 60730-1:2013/AMD1:2015 | 소프트웨어   | Automatic electrical controls - Part 1: General requirements<br>Annex H Requirements for electronic controls                                | -    | 소재지 | Y    |
| IEC 60730-1:2013/AMD2:2020 | 소프트웨어   | Automatic electrical controls - Part 1: General requirements<br>Annex H Requirements for electronic controls                                | -    | 소재지 | Y    |
| IEC 60730-1:2022           | 소프트웨어   | Automatic electrical controls - Part 1: General requirements, Annex H Requirements related to functional safety                             | -    | 소재지 | Y    |
| IEC 61508-3:2010           | 소프트웨어   | Functional safety of electrical/electronic/programmable electronic safety-related systems - Part3: Software requirements<br>Table B.1       | -    | 소재지 | Y    |
| IEC 62279:2015             | 소프트웨어   | Railway applications - Communication, signalling and processing systems - Software for railway control and protection systems<br>Table A.12 | -    | 소재지 | Y    |
| IEC 62304:2006/AMD1:2015   | 소프트웨어   | Medical device software - Software life cycle processes                                                                                     | -    | 소재지 | Y    |
| IEC 81001-5-1:2021         | 소프트웨어   | Health software and health IT systems safety, effectiveness and security - Part 5-1: Security - Activities in the product life cycle        | -    | 소재지 | Y    |
| IEC TR 60601-4-5:2021      | 소프트웨어   | Medical electrical equipment - Part 4-5: Guidance and interpretation - Safety-related technical security specifications                     | -    | 소재지 | Y    |

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| 규격번호                  | 제품 및 물질 | 규격명                                                                                                                                                                                      | 시험범위 | 사업장 | 현장시험 |
|-----------------------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|
| ISO 26262-6:2018      | 소프트웨어   | Road vehicles - Functional safety - Part 6: Product development at the software level 8.4.5, 9.4.2, Table 6                                                                              | -    | 소재지 | Y    |
| ISO/IEC 25023:2016    | 소프트웨어   | Systems and software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE) - Measurement of system and software product quality                                | -    | 소재지 | Y    |
| ISO/IEC 25051:2014    | 소프트웨어   | Software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE) - Requirements for quality of Ready to Use Software Product (RUSP) and instructions for testing | -    | 소재지 | Y    |
| KC 60335-1:2022       | 소프트웨어   | 가정용 및 이와 유사한 전기기기의 안전성 제1부: 일반 요구사항<br>부속서 R 소프트웨어 평가                                                                                                                                    | -    | 소재지 | Y    |
| KC 62619:2019         | 소프트웨어   | 산업용 리튬이차전지 안전<br>부속서 D 배터리 관리 시스템 기능안전성 고려                                                                                                                                               | -    | 소재지 | Y    |
| KC 62619:2023         | 소프트웨어   | 산업용 리튬이차전지 안전<br>부속서 E 배터리 관리 시스템 기능안전성 고려                                                                                                                                               | -    | 소재지 | Y    |
| KS C IEC 60730-1:2015 | 소프트웨어   | 자동제어장치 - 제1부: 일반 요구사항<br>부속서 H 전자제어장치에 대한 요구사항                                                                                                                                           | -    | 소재지 | Y    |
| KS C IEC 60730-1:2020 | 소프트웨어   | 자동제어장치 - 제1부: 일반 요구사항<br>부속서 H 전자제어장치에 대한 요구사항                                                                                                                                           | -    | 소재지 | Y    |
| KS C IEC 60730-1:2022 | 소프트웨어   | 자동제어장치 - 제1부: 일반 요구사항, 부속서 H 기능안전과 관련된 요구사항                                                                                                                                              | -    | 소재지 | Y    |

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| 규격번호                    | 제품 및 물질 | 규격명                                                                                       | 시험범위 | 사업장 | 현장시험 |
|-------------------------|---------|-------------------------------------------------------------------------------------------|------|-----|------|
| KS P IEC 62304:2015     | 소프트웨어   | 의료기기 소프트웨어 - 소프트웨어 수명주기 프로세스                                                              | -    | 소재지 | Y    |
| KS X ISO/IEC 25023:2016 | 소프트웨어   | 시스템 및 소프트웨어공학 - 시스템 및 소프트웨어 품질 요구사항 및 평가 (SQuaRE) - 시스템 및 소프트웨어 제품 품질 측정                  | -    | 소재지 | Y    |
| KS X ISO/IEC 25051:2014 | 소프트웨어   | 소프트웨어 공학 - 시스템 및 소프트웨어 품질 요구사항 및 평가 (SQuaRE) - 즉시 사용 가능한 소프트웨어 제품(RUSP)의 품질 요구사항 및 테스트 지침 | -    | 소재지 | Y    |
| MISRA C++:2008          | 소프트웨어   | Guidelines for the use of the C++ language in critical systems                            | -    | 소재지 | Y    |
| MISRA C:2012            | 소프트웨어   | Guidelines for the use of the C language in critical systems                              | -    | 소재지 | Y    |

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## 03. 전기시험

### 03.013 에너지효율

| 규격번호                                   | 제품 및 물질 | 규격명                                                                                                                                                                                                           | 시험범위                                                                                                                                                                                               | 사업장 | 현장 시험 |
|----------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|
| 산업통상자원부 고시 제2022-33호<br>(2022.02.15.)  | 전기전자기기  | 대기전력저감프로그램운용규정<br>[다음 항목만 인정]<br>3. 프린터<br>4. 팩시밀리<br>5. 복사기<br>6. 스캐너<br>7. 복합기<br>10. 오디오<br>11. DVD 플레이어<br>12. 라디오카세트<br>13. 전자레인지<br>15. 도어폰<br>16. 유무선전화기<br>17. 비데<br>20. 손건조기<br>21. 서버<br>22. 디지털컨버터 | 입력 전압:AC 300 V 이하<br>입력 전류:AC 20 A 이하,<br>정격입력주파수:(50 ~ 60) Hz,<br>온도:(0 ~ 200) °C                                                                                                                 | 소재지 | N     |
| 산업통상자원부 고시 제2024-169호<br>(2024.10.29.) | 전기전자기기  | 효율관리기자재운용규정<br>[다음 항목만 인정]<br>20. 어댑터충전기<br>26. 텔레비전수상기<br>42. 사이니지디스플레이<br>44. 모니터<br>49. 컴퓨터<br>50. 복합기                                                                                                     | 입력 전압:AC 300 V 이하<br>입력 전류:AC 20 A 이하,<br>정격입력주파수:(50 ~ 60) Hz<br>온도:(0 ~ 200) °C<br>어댑터충전기:150 W 이하<br>텔레비전수상기:화면 47 cm ~ 216 cm 이하,<br>사이니지디스플레이:화면 30.48 cm ~ 154.94 cm 이하,<br>모니터:화면 153 cm 이하 | 소재지 | N     |

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## 03. 전기시험

### 03.014 환경 및 신뢰성

| 규격번호                | 제품 및 물질   | 규격명                                                                                                                                                | 시험범위                                                                                                                                                                                  | 사업장 | 현장 시험 |
|---------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------|
| ES 95400-10:2013    | 전기재료 및 부품 | 자동차용 전자기기 환경시험<br>[제외항목]<br>3.5.14 내 오존시험                                                                                                          | 온도 : (-70 ~ 200) °C<br>습도 : (10 ~ 98) % R.H.<br>주파수 : (5 ~ 2 000) Hz<br>진동가속도 : (1.1 ~ 147) m/s <sup>2</sup><br>충격가속도 : (1.1 ~ 1 500) m/s <sup>2</sup><br>온도 : 35 °C<br>NaCl 농도 : 5 % | 소재지 | N     |
| ES 96100-02:2007    | 전기재료 및 부품 | CAR AUDIO (RADIO/CDC/CDP/AV)                                                                                                                       | 온도 : (-70 ~ 200) °C<br>습도 : (10 ~ 98) % R.H.<br>주파수 : (5 ~ 2 000) Hz<br>진동가속도 : (1.1 ~ 147) m/s <sup>2</sup><br>충격가속도 : (1.1 ~ 1 500) m/s <sup>2</sup>                                | 소재지 | N     |
| IEC 60068-2-11:2021 | 전기재료 및 부품 | Environmental testing - Part 2-11: Tests - Test Ka: Salt mist                                                                                      | Temperature : 35 °C<br>NaCl concentration : 5 %                                                                                                                                       | 소재지 | N     |
| IEC 60068-2-13:2021 | 전기재료 및 부품 | Environmental testing procedures - Part 2-13: Tests - Test M: Low air pressure                                                                     | Air Pressure : (7.1 ~ 101.33) kPa                                                                                                                                                     | 소재지 | N     |
| IEC 60068-2-14:2023 | 전기재료 및 부품 | Environmental testing -Part2-14:Tests-Test N:Change of temperature<br>[Exception]<br>9. Test Nc:Rapid change of temperature, two-fluid-bath method | Temperature : (-70 ~ 150) °C                                                                                                                                                          | 소재지 | N     |
| IEC 60068-2-1:2007  | 전기재료 및 부품 | Environmental testing - Part 2-1:Tests - Tests A: Cold                                                                                             | Temperature : (-70 ~ 5) °C                                                                                                                                                            | 소재지 | N     |
| IEC 60068-2-27:2008 | 전기재료 및 부품 | Environmental testing -Part2-27 Tests-Test Ea and guidance: Shock                                                                                  | Shock Acceleration : (1.1 ~ 1 500) m/s <sup>2</sup>                                                                                                                                   | 소재지 | N     |
| IEC 60068-2-2:2007  | 전기재료 및 부품 | Basic environmental testing - Part 2-2:Tests - Test B: Dry heat                                                                                    | Temperature : (30 ~ 200) °C                                                                                                                                                           | 소재지 | N     |
| IEC 60068-2-30:2005 | 전기재료 및 부품 | Environmental testing - Part 2-30:Tests - Test Db:Damp heat, cyclic (12 h + 12 h cycle)                                                            | Temperature : (10 ~ 90) °C<br>Humidity : (10 ~ 98) % R.H.                                                                                                                             | 소재지 | N     |

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| 규격번호                          | 제품 및 물질   | 규격명                                                                                                                                 | 시험범위                                                                                                                                                                                                              | 사업장 | 현장시험 |
|-------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60068-2-31:2008           | 전기재료 및 부품 | Environmental testing - Part 2-31:Tests - Test Ec:Rough handling shock, primarily for equipment- type specimens                     | Drop Height : (25 ~ 1 500) mm                                                                                                                                                                                     | 소재지 | N    |
| IEC 60068-2-52:2017           | 전기재료 및 부품 | Environmental testing - Part 2-52:Tests - Test Kb:Salt mist, cyclic (sodium chloride solution)                                      | Temperature : (15 ~ 35) °C, 40 °C<br>NaCl concentration : 5 %<br>Humidity : (45 ~ 55) % R.H., 93 % R.H.                                                                                                           | 소재지 | N    |
| IEC 60068-2-53:2010           | 전기재료 및 부품 | Environmental testing - Part 2-53:Tests and guidance - Combined climatic (temperature/humidity) and dynamic (vibration/shock) tests | Temperature : (-40 ~ 150) °C<br>Humidity : (20 ~ 98) % R.H.<br>Vibration Frequency : (5 ~ 2 000) Hz<br>Vibration Acceleration : (1.1 ~ 147) m/s <sup>2</sup><br>Shock Acceleration : (1.1 ~ 909) m/s <sup>2</sup> | 소재지 | N    |
| IEC 60068-2-64:2008+AMD1:2019 | 전기재료 및 부품 | Environmental Testing - Part 2-64:Tests methods - Test Fh:Vibration, broad-band random and guidance                                 | Frequency : (5 ~ 2 000) Hz<br>Vibration Acceleration : (1.1 ~ 147) m/s <sup>2</sup>                                                                                                                               | 소재지 | N    |
| IEC 60068-2-66:1994           | 전기재료 및 부품 | Environmental testing - Part 2:Test methods - Test Cx:Damp heat, steady state (unsaturated pressurized vapour)                      | Temperature : 110 °C, 120 °C, 130 °C<br>Humidity : 85 % R.H.                                                                                                                                                      | 소재지 | N    |
| IEC 60068-2-67:1995+AMD1:2019 | 전기재료 및 부품 | Environmental testing - Part 2-67:Tests - Test Cy:Damp heat, steady state, accelerated test primarily intended for components       | Temperature : (10 ~ 90) °C<br>Humidity : (10 ~ 98) % R.H.                                                                                                                                                         | 소재지 | N    |
| IEC 60068-2-6:2007            | 전기재료 및 부품 | Environmental testing - Part 2-6:Tests - Test Fc:Vibration (sinusoidal)                                                             | Frequency : (5 ~ 2 000) Hz<br>Vibration Acceleration : (1.1 ~ 147) m/s <sup>2</sup>                                                                                                                               | 소재지 | N    |
| IEC 60068-2-78:2012           | 전기재료 및 부품 | Environmental testing - Part 2-78:Tests - Test Cab:Damp heat, steady state                                                          | Temperature : 30 °C, 40°C<br>Humidity : (10 ~ 98) % R.H.                                                                                                                                                          | 소재지 | N    |

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| 규격번호                           | 제품 및 물질   | 규격명                                                                                                                                                                                                                                  | 시험범위                                                                                                                                                                                                                                                         | 사업장 | 현장시험 |
|--------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| IEC 60255-27:2013              | 전기재료 및 부품 | Measuring relays and protection equipment - Part 27: Product safety requirements [Accept only]<br>10.6.4.4 Insulation resistance                                                                                                     | Insulation voltage: (450 ~ 550) Vd.c.<br>Insulation resistance: less than 4000 MΩ                                                                                                                                                                            | 소재지 | N    |
| IEC 60529:1989+A1:1999+A2:2013 | 전기재료 및 부품 | Degrees of protection provided by enclosures (IP Code)                                                                                                                                                                               | IPX1, IPX2, IPX3, IPX4, IPX5, IPX6, IPX7, IPX8, IPX9, IP1X, IP2X, IP3X, IP4X, IP5X, IP6X                                                                                                                                                                     | 소재지 | N    |
| IEC 60571:2012                 | 전기재료 및 부품 | Railway applications - Electronic equipment used on rolling stock [exception]<br>12.2.7 Supply overvoltages<br>12.2.8 Surges, electrostatic discharge and transient burst susceptibility tests<br>12.2.9 Radio frequency test        | Frequency : (5 ~ 2 000) Hz<br>Vibration Acceleration : (1.1 ~ 147) m/s <sup>2</sup><br>Shock Acceleration : (1.1 ~ 1 500) m/s <sup>2</sup><br>Temperature : (-70 ~ 150) °C<br>Humidity : (10 ~ 98) % R.H.<br>Temperature : 35 °C<br>NaCl concentration : 5 % | 소재지 | N    |
| IEC 61373:2010                 | 전기재료 및 부품 | Railway applications - Rolling stock equipment - Shock and vibration tests                                                                                                                                                           | Frequency : (5 ~ 2 000) Hz<br>Vibration Acceleration : (1.1 ~ 147) m/s <sup>2</sup><br>Shock Acceleration : (1.1 ~ 1 500) m/s <sup>2</sup>                                                                                                                   | 소재지 | N    |
| ISO 16750-3:2023               | 전기재료 및 부품 | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 3: Mechanical loads [Exception]<br>Test X - Passenger car, components on fuel rail (gasoline engine with GDI-system)             | Frequency : (5 ~ 2 000) Hz<br>Vibration Acceleration : (1.1 ~ 147) m/s <sup>2</sup><br>Shock Acceleration : (1.1 ~ 1 500) m/s <sup>2</sup><br>Drop Height : (25 ~ 1 500) mm                                                                                  | 소재지 | N    |
| ISO 16750-4:2023               | 전기재료 및 부품 | Road vehicles - Environmental conditions and testing for electrical and electronic equipment- Part4: Climatic loads<br>[Exception]<br>5.4 Ice water shock test,<br>5.8 Corrosion test with flow of mixed gas,<br>5.9 Solar radiation | Temperature : (-70 ~ 200) °C<br>Humidity : (10 ~ 98) % R.H.<br>Temperature : 35 °C<br>NaCl concentration : 5 %                                                                                                                                               | 소재지 | N    |

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| 규격번호                     | 제품 및 물질   | 규격명                                                                                                                           | 시험범위                                                                                                      | 사업장 | 현장시험 |
|--------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----|------|
| ISO 20653:2023           | 전기재료 및 부품 | Road vehicles – Degrees of protection(IP code) – Protection of electrical equipment against foreign objects, water and access | IPX1, IPX2, IPX3, IPX4, IPX4K, IPX5, IPX6, IPX6K, IPX7, IPX8, IPX9K, IP1X, IP2X, IP3X, IP4X, IP5KX, IP6KX | 소재지 | N    |
| KS C 7620:2003           | 전기재료 및 부품 | 철도 차량용 형광등 기구<br>[제외항목]<br>7.2 특성시험<br>7.8 수명시험<br>7.11 광속비 시험<br>7.13 잡음의 세기 시험                                              | 전압 : DC 24 V, DC 100 V<br>전류 : (0 ~ 200) A<br>온도 : (0 ~ 200) °C                                           | 소재지 | N    |
| KS C IEC 60068-2-11:2021 | 전기재료 및 부품 | 환경 시험-제2-11부:시험-시험 Ka:염수분무시험                                                                                                  | 온도 : 35 °C<br>NaCl 농도 : 5 %                                                                               | 소재지 | N    |
| KS C IEC 60068-2-13:2021 | 전기재료 및 부품 | 환경 시험 - 제2-13부: 시험 - 시험 M: 저기압                                                                                                | 기압 : (7.1 ~ 101.33) kPa                                                                                   | 소재지 | N    |
| KS C IEC 60068-2-14:2023 | 전기재료 및 부품 | 환경시험-제2-14부:시험-시험 N:온도변화<br>[제외항목]<br>9. 시험 Nc:온도의 급변 (2옥조법)                                                                  | 온도 : (-70 ~ 150) °C                                                                                       | 소재지 | N    |
| KS C IEC 60068-2-1:2007  | 전기재료 및 부품 | 환경 시험-제2-1부:시험-시험 A:내한성 시험                                                                                                    | 온도 : (-70 ~ 5) °C                                                                                         | 소재지 | N    |
| KS C IEC 60068-2-27:2008 | 전기재료 및 부품 | 환경시험-제2-27부:시험-시험 Ea와 지침:충격시험                                                                                                 | 충격가속도 : (1.1 ~ 1 500) m/s <sup>2</sup>                                                                    | 소재지 | N    |
| KS C IEC 60068-2-2:2007  | 전기재료 및 부품 | 환경 시험-제2-2부:시험-시험 B:내열성 시험                                                                                                    | 온도 : (30 ~ 200) °C                                                                                        | 소재지 | N    |
| KS C IEC 60068-2-30:2005 | 전기재료 및 부품 | 환경시험-제2-30부:시험-시험 Db와 지침:내습 사이클 (12h+12h사이클)                                                                                  | 온도 : (10 ~ 90) °C<br>습도 : (10 ~ 98) % R.H.                                                                | 소재지 | N    |
| KS C IEC 60068-2-31:2008 | 전기재료 및 부품 | 환경시험-제2-31부:시험-시험 Ec:주로 장비형 시험편에 사용하는 거친 취급 충격                                                                                | 높이 : (25 ~ 1 500) mm                                                                                      | 소재지 | N    |
| KS C IEC 60068-2-38:2021 | 전기재료 및 부품 | 환경시험-제2-38부:시험-시험 Z/AD:복합 온도/습도 사이클 시험                                                                                        | 온도 : (-10 ~ 90) °C<br>습도 : (10 ~ 98) % R.H.                                                               | 소재지 | N    |
| KS C IEC 60068-2-52:2017 | 전기재료 및 부품 | 환경 시험-제2부:시험-시험 Kb:염수분무, 싸이클 (염화나트륨 용액)                                                                                       | 온도 : (15 ~ 35) °C, 40 °C<br>NaCl 농도 : 5 %<br>습도 : (45 ~ 55) % R.H., 93 % R.H.                             | 소재지 | N    |

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| 규격번호                     | 제품 및 물질   | 규격명                                                                                                         | 시험범위                                                                                                                                                                                  | 사업장 | 현장시험 |
|--------------------------|-----------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KS C IEC 60068-2-53:2010 | 전기재료 및 부품 | 환경 시험 - 제2-53부: 시험 - 시험 및 지침: 기후(온도/습도) 및 동적(진동/충격) 결합 시험                                                   | 온도 : (-40 ~ 150) °C<br>습도 : (20 ~ 98) % R.H<br>진동주파수 : (5 ~ 2 000) Hz<br>진동가속도 : (1.1 ~ 147) m/s <sup>2</sup><br>충격가속도 : (1.1 ~ 909) m/s <sup>2</sup>                                 | 소재지 | N    |
| KS C IEC 60068-2-64:2019 | 전기재료 및 부품 | 환경 시험 - 제 2-64부: 시험 - 시험 Fh: 광대역 랜덤 진동 시험 및 지침                                                              | 주파수 : (5 ~ 2 000) Hz<br>진동가속도 : (1.1 ~ 147) m/s <sup>2</sup>                                                                                                                          | 소재지 | N    |
| KS C IEC 60068-2-67:2019 | 전기재료 및 부품 | 환경 시험 - 제2-67부: 시험 - 시험 Cy: 주로 부품을 대상으로 하는 습열, 정상 상태, 가속 시험                                                 | 온도 : (10 ~ 90) °C<br>습도 : (10 ~ 98) % R.H.                                                                                                                                            | 소재지 | N    |
| KS C IEC 60068-2-6:2015  | 전기재료 및 부품 | 환경시험-제2-6부:시험-시험 Fc:진동(정현파)                                                                                 | 주파수 : (5 ~ 2 000) Hz<br>진동가속도 : (1.1 ~ 147) m/s <sup>2</sup>                                                                                                                          | 소재지 | N    |
| KS C IEC 60068-2-78:2012 | 전기재료 및 부품 | 환경시험방법(전기 • 전자)-안정상태의 내습성 시험                                                                                | 온도 : 30 °C, 40 °C<br>습도 : (10 ~ 98) % R.H.                                                                                                                                            | 소재지 | N    |
| KS C IEC 60068-3-4:2001  | 전기재료 및 부품 | 환경시험-제3-4부:지원문서 및 지침-내습성시험                                                                                  | 온도 : (10 ~ 90) °C<br>습도 : (10 ~ 98) % R.H.                                                                                                                                            | 소재지 | N    |
| KS C IEC 60255-21-1:1988 | 전기재료 및 부품 | 전기계전기 - 제21-1부:보호 계전기와 보호기기의 진동, 충격, 충돌, 지진시험 - 진동시험                                                        | 주파수 : (5 ~ 2 000) Hz<br>진동가속도 : (1.1 ~ 147) m/s <sup>2</sup>                                                                                                                          | 소재지 | N    |
| KS C IEC 60255-21-2:1988 | 전기재료 및 부품 | 전기계전기 - 제21-2부:보호 계전기와 보호기기의 진동, 충격, 충돌, 지진시험 - 지진 시험<br><br>[제외항목] 충돌시험                                    | 주파수 : (5 ~ 2 000) Hz<br>진동가속도 : (1.1 ~ 1 500) m/s <sup>2</sup>                                                                                                                        | 소재지 | N    |
| KS C IEC 60529:2013      | 전기재료 및 부품 | 외함의 밀폐 보호등급 구분(IP코드)                                                                                        | IPX1, IPX2, IPX3, IPX4, IPX5, IPX6, IPX7, IPX8, IPX9, IP1X, IP2X, IP3X, IP4X, IP5X, IP6X                                                                                              | 소재지 | N    |
| KS C IEC 60571:2012      | 전기재료 및 부품 | 철도 적용 - 철도 차량용 전자기기<br><br>[제외항목]<br>12.2.7 공급 과전압<br>12.2.8 서지, 정전기 방전 및 과도 버스트 민감도 시험<br>12.2.9 무선 주파수 시험 | 주파수 : (5 ~ 2 000) Hz<br>진동가속도 : (1.1 ~ 147) m/s <sup>2</sup><br>충격가속도 : (1.1 ~ 1 500) m/s <sup>2</sup><br>온도 : (-70 ~ 150) °C<br>습도 : (10 ~ 98) % R.H.<br>온도 : 35 °C<br>NaCl 농도 : 5 % | 소재지 | N    |

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| 규격번호                | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 시험범위                                                                                                                                                                                                                                | 사업장 | 현장시험 |
|---------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| KS C IEC 61373:2010 | 전기재료 및 부품 | 철도 적용 - 철도차량장치 - 충격 및 진동시험                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 주파수 : (5 ~ 2 000) Hz<br>진동가속도 : (1.1 ~ 147) m/s <sup>2</sup><br>충격가속도 : (1.1 ~ 1 500) m/s <sup>2</sup>                                                                                                                              | 소재지 | N    |
| KS R 1034:2023      | 전기재료 및 부품 | 자동차 부품 진동 시험방법                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 주파수 : (5 ~ 2 000) Hz<br>진동가속도 : (1.1 ~ 147) m/s <sup>2</sup>                                                                                                                                                                        | 소재지 | N    |
| KS R 9144:2021      | 전기재료 및 부품 | 철도 차량 부품의 진동 시험 방법                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 주파수 : (5 ~ 2 000) Hz<br>진동가속도 : (1.1 ~ 147) m/s <sup>2</sup>                                                                                                                                                                        | 소재지 | N    |
| KS R 9186:2021      | 전기재료 및 부품 | 철도 신호 보안 부품 - 진동 시험 방법                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 주파수 : (5 ~ 2 000) Hz<br>진동가속도 : (1.1 ~ 147) m/s <sup>2</sup>                                                                                                                                                                        | 소재지 | N    |
| MIL-PRF-28800F:1996 | 전기재료 및 부품 | PERFORMANCE SPECIFICATION TEST EQUIPMENT FOR USE WITH ELECTRICAL AND ELECTRONIC EQUIPMENT, GENERAL SPECIFICATION FOR<br>4.5.3.1 c. Environmental Stress Screening (random vibration)<br>4.5.3.1 d. Environmental Stress Screening (temperature cycling)<br>4.5.5.1 Temperature and Humidity Tests<br>4.5.5.2 Altitude Test<br>4.5.5.3.1 Random Vibration Test<br>4.5.5.3.2 Sinusoidal Vibration Test<br>4.5.5.4.1 Functional Shock Test<br>4.5.5.4.2 Transit drop test<br>4.5.5.4.3 Bench handling test<br>4.5.5.5.1 Watertight Test, Class 1 and air tight transit case<br>4.5.6.2 Salt Fog Tests | Frequency: (10 ~ 2 000) Hz<br>Temperature: (-51 ~ 71) °C<br>Humidity: (10 ~ 98) % R.H.<br>Altitude: 4 600 m<br>Shock Acceleration: 294 m/s <sup>2</sup><br>Depth of Immersion: 0.9 m<br>Temperature: 35 °C, NaCl concentration: 5 % | 소재지 | N    |
| MIL-STD-167-1:1974  | 전기재료 및 부품 | MECHANICAL VIBRATIONS OF SHIPBOARD EQUIPMENT (TYPE I - ENVIRONMENTAL VIBRATION)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Frequency : (4 ~ 50) Hz                                                                                                                                                                                                             | 소재지 | N    |

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| 규격번호                | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                                                                                                | 시험범위                                                                                                                                                                                                                                                                      | 사업장 | 현장시험 |
|---------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| MIL-STD-167-1A:2005 | 전기재료 및 부품 | MECHANICAL VIBRATIONS OF SHIPBOARD EQUIPMENT (TYPE I - ENVIRONMENTAL VIBRATION)                                                                                                                                                                                                                                                                                                                    | Frequency : (4 ~ 33) Hz                                                                                                                                                                                                                                                   | 소재지 | N    |
| MIL-STD-202G:2002   | 전기재료 및 부품 | TEST METHOD STANDARD ELECTRONIC AND ELECTRICAL COMPONENT PARTS<br>101E Salt Atmosphere (Corrosion)<br>103B Humidity (Steady State)<br>105C Barometric Pressure (Reduced)<br>106G Moisture Resistance<br>107G Thermal Shock Table 107-I<br>108A LIFE (At Elevated Ambient Temperature)<br>201A Vibration<br>204D Vibration, High Frequency<br>213B Shock (Specified Pulse)<br>214A Random Vibration | Air Pressure : (11.6 ~ 101.33) kPa<br>Temperature : (-70 ~ 200) °C<br>Humidity : (10 ~ 98) % R.H.<br>NaCl concentration : 5 %<br>Frequency : (4 ~ 2 000) Hz<br>Vibration Acceleration : (1.1 ~ 147) m/s <sup>2</sup><br>Shock Acceleration : (1.1 ~ 980) m/s <sup>2</sup> | 소재지 | N    |
| MIL-STD-202H:2015   | 전기재료 및 부품 | TEST METHOD STANDARD ELECTRONIC AND ELECTRICAL COMPONENT PARTS<br>101 Salt Atmosphere (Corrosion)<br>103 Humidity (Steady State)<br>105 Barometric Pressure (Reduced)<br>106 Moisture Resistance<br>107 Thermal Shock Table 107-I<br>108 LIFE (At Elevated Ambient Temperature)<br>201 Vibration<br>204 Vibration, High Frequency<br>213 Shock (Specified Pulse)<br>214 Random Vibration           | Air Pressure : (11.6 ~ 101.33) kPa<br>Temperature : (-70 ~ 200) °C<br>Humidity : (10 ~ 98) % R.H.<br>NaCl concentration : 5 %<br>Frequency : (4 ~ 2 000) Hz<br>Vibration Acceleration : (1.1 ~ 147) m/s <sup>2</sup><br>Shock Acceleration : (1.1 ~ 980) m/s <sup>2</sup> | 소재지 | N    |

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| 규격번호              | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 시험범위                                                                                                                                                                                                                                                                                                                                                               | 사업장 | 현장시험 |
|-------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| MIL-STD-810C:1975 | 전기재료 및 부품 | Environmental Test Methods<br>501.1 High Temperature<br>502.1 Low Temperature<br>503.1 Temperature Shock<br>507.1 Humidity<br>514.2 Vibration<br>516.2 Shock<br>519.2 Gunfire Vibration, AIRCRAFT                                                                                                                                                                                                                                                                                                                                                                   | Temperature : (-70 ~ 150 °C<br>Temperature : (60 ~ 200) °C<br>Temperature : (-65 ~ 0) °C<br>Temperature : (10 ~ 90) °C<br>Humidity : (10 ~ 98) % R.H.<br>Frequency : (5 ~ 2 000) Hz<br>Vibration Acceleration : (1.1 ~ 147) m/s <sup>2</sup><br>Shock Acceleration : (1.1 ~ 980) m/s <sup>2</sup>                                                                  | 소재지 | N    |
| MIL-STD-810E:1989 | 전기재료 및 부품 | ENVIRONMENTAL TEST METHODS AND ENGINEERING GUIDELINES<br>500.3 Low Pressure (Altitude)<br>Procedure I - Storage<br>Procedure II - Operation<br>501.3 High temperature<br>502.3 Low temperature<br>503.3 Temperature shock<br>507.3 Humidity<br>509.3 Salt Fog<br>514.4 Vibration [Exception]<br>Category 2 - Large Assembly Transport<br>Category 3 - Loose Cargo Transport<br>516.4 Shock [Exception]<br>Procedure VII - Pyrotechnic shock<br>Procedure VIII - Rail impact<br>Procedure IX - Catapult launch/arrested landing<br>519.4 GUNFIRE VIBRATION, AIRCRAFT | Air Pressure:(7.1 ~ 101.33) kPa<br>Temperature: (-70 ~ 150 °C<br>Temperature:(60 ~ 200) °C<br>Temperature:(-65 ~ 0) °C<br>Temperature:(10 ~ 90) °C,<br>Humidity:(10 ~ 98) % R.H.<br>Temperature:35 °C, NaCl concentration:5 %, Frequency:(5 ~ 2 000) Hz,<br>Vibration Acceleration:(1.1 ~ 147) m/s <sup>2</sup><br>Shock Acceleration:(1.1 ~ 980) m/s <sup>2</sup> | 소재지 | N    |

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| 규격번호              | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                           | 사업장 | 현장시험 |
|-------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| MIL-STD-810F:2000 | 전기재료 및 부품 | TEST METHOD<br>STANDARD FOR<br>ENVIRONMENTAL<br>ENGINEERING<br>CONSIDERATIONS AND<br>LABORATORY TESTS<br>500.4 Low Pressure<br>(Altitude)<br>Procedure I -<br>Storage/Air Transport.<br>Procedure II -<br>Operation/Air Carriage.<br>501.4 High temperature<br>502.4 Low temperature<br>503.4 Temperature<br>shock<br>507.4 Humidity<br>509.4 Salt Fog<br>512.4 Immersion<br>Procedure I -<br>Immersion<br>514.5 Vibration<br>[Exception]<br>Category 5 -<br>Truck/trailer/tracked -<br>loose cargo<br>516.5 Shock<br>[Exception]<br>Procedure VII - Rail<br>impact<br>Procedure VIII - Catapult<br>Launch/Arrested<br>Landing<br>519.5 Gunfire Vibration<br>520.2 Temperature,<br>Humidity, Vibration, and<br>Altitude | Air Pressure:(7.1 ~<br>101.33) kPa<br>Temperature: (-70 ~<br>150 °C<br>Temperature:(60 ~<br>200) °C<br>Temperature:(-65 ~ 0)<br>°C<br>Temperature:(10 ~ 90)<br>°C,<br>Humidity:(10 ~ 98) %<br>R.H.<br>Temperature:35 °C,<br>NaCl concentration:5<br>%,<br>Frequency:(5 ~ 2 000)<br>Hz,<br>Vibration<br>Acceleration:(1.1 ~<br>147) m/s <sup>2</sup><br>Shock<br>Acceleration:(1.1 ~<br>980) m/s <sup>2</sup><br>Depth of Immersion:1<br>000 mm | 소재지 | N    |

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제 KT197호

| 규격번호              | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                           | 사업장 | 현장시험 |
|-------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| MIL-STD-810F:2003 | 전기재료 및 부품 | TEST METHOD<br>STANDARD FOR<br>ENVIRONMENTAL<br>ENGINEERING<br>CONSIDERATIONS AND<br>LABORATORY TESTS<br>500.4 Low Pressure<br>(Altitude)<br>Procedure I -<br>Storage/Air Transport.<br>Procedure II -<br>Operation/Air Carriage.<br>501.4 High temperature<br>502.4 Low temperature<br>503.4 Temperature<br>shock<br>507.4 Humidity<br>509.4 Salt Fog<br>512.4 Immersion<br>Procedure I -<br>Immersion<br>514.5 Vibration<br>[Exception]<br>Category 5 -<br>Truck/trailer/tracked -<br>loose cargo<br>516.5 Shock<br>[Exception]<br>Procedure VII - Rail<br>impact<br>Procedure VIII - Catapult<br>Launch/Arrested<br>Landing<br>519.5 Gunfire Vibration<br>520.2 Temperature,<br>Humidity, Vibration, and<br>Altitude | Air Pressure:(7.1 ~<br>101.33) kPa<br>Temperature: (-70 ~<br>150 °C<br>Temperature:(60 ~<br>200) °C<br>Temperature:(-65 ~ 0)<br>°C<br>Temperature:(10 ~ 90)<br>°C,<br>Humidity:(10 ~ 98) %<br>R.H.<br>Temperature:35 °C,<br>NaCl concentration:5<br>%,<br>Frequency:(5 ~ 2 000)<br>Hz,<br>Vibration<br>Acceleration:(1.1 ~<br>147) m/s <sup>2</sup><br>Shock<br>Acceleration:(1.1 ~<br>980) m/s <sup>2</sup><br>Depth of Immersion:1<br>000 mm | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

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| 규격번호                      | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                           | 사업장 | 현장시험 |
|---------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| MIL-STD-810G<br>CHG1:2014 | 전기재료 및 부품 | TEST METHOD<br>STANDARD<br>ENVIRONMENTAL<br>ENGINEERING<br>CONSIDERATIONS AND<br>LABORATORY TESTS<br>500.6 Low Pressure<br>(Altitude)<br>Procedure I -<br>Storage/Air Transport.<br>Procedure II -<br>Operation/Air Carriage.<br>501.6 High temperature<br>502.6 Low temperature<br>503.6 Temperature<br>shock<br>507.6 Humidity<br>509.6 Salt Fog<br>512.6 Immersion<br>Procedure I -<br>Immersion<br>514.7 Vibration<br>[제외항목]<br>Category 5 -<br>Truck/trailer - Loose<br>Cargo<br>516.7 Shock<br>[제외항목]<br>Procedure VI - Bench<br>Handling<br>Procedure VII -<br>Pendulum Impact<br>Procedure VIII -<br>Catapult<br>Lanch/Arrested Landing<br>519.7 Gunfire Shock<br>520.4 Temperature,<br>Humidity, Vibration, and<br>Altitude<br>528.1 Mechanical<br>Vibrations Of Shipboard<br>Materiel (Type I -<br>ENVIRONMENTAL<br>VIBRATION) | Air Pressure:(7.1 ~<br>101.33) kPa<br>Temperature: (-70 ~<br>150 °C<br>Temperature:(60 ~<br>200) °C<br>Temperature:(-65 ~ 0)<br>°C<br>Temperature:(10 ~ 90)<br>°C,<br>Humidity:(10 ~ 98) %<br>R.H.<br>Temperature:35 °C,<br>NaCl concentration:5<br>%,<br>Frequency:(4 ~ 2 000)<br>Hz,<br>Vibration<br>Acceleration:(1.1 ~<br>147) m/s <sup>2</sup><br>Shock<br>Acceleration:(1.1 ~<br>980) m/s <sup>2</sup><br>Depth of Immersion:1<br>000 mm | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호              | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 사업장 | 현장시험 |
|-------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| MIL-STD-810G:2008 | 전기재료 및 부품 | <p>TEST METHOD<br/>STANDARD<br/>ENVIRONMENTAL<br/>ENGINEERING<br/>CONSIDERATIONS AND<br/>LABORATORY TESTS</p> <p>500.5 Low Pressure<br/>(Altitude)<br/>Procedure I -<br/>Storage/Air Transport.<br/>Procedure II -<br/>Operation/Air Carriage.<br/>501.5 High temperature<br/>502.5 Low temperature<br/>503.5 Temperature<br/>shock<br/>507.5 Humidity<br/>509.5 Salt Fog<br/>512.5 Immersion<br/>Procedure I -<br/>Immersion<br/>514.6 Vibration<br/>[Exception]<br/>Category 5 -<br/>Truck/Trailer/Tracked -<br/>Loose Cargo<br/>516.6 Shock<br/>[Exception]<br/>Procedure VII -<br/>Pendulum Impact<br/>Procedure VIII - Catapult<br/>Launch/Arrested<br/>Landing<br/>519.6 Gunfire Shock<br/>520.3 Temperature,<br/>Humidity, Vibration, and<br/>Altitude<br/>528 MECHANICAL<br/>VIBRATIONS OF<br/>SHIPBOARD<br/>EQUIPMENT (TYPE I -<br/>ENVIRONMENTAL<br/>VIBRATION)</p> | <p>Air Pressure:(7.1 ~<br/>101.33) kPa<br/>Temperature: (-70 ~<br/>150 °C<br/>Temperature:(60 ~<br/>200) °C<br/>Temperature:(-65 ~ 0)<br/>°C<br/>Temperature:(10 ~ 90)<br/>°C,<br/>Humidity:(10 ~ 98) %<br/>R.H.<br/>Temperature:35 °C,<br/>NaCl concentration:5<br/>%,<br/>Frequency:(4 ~ 2 000)<br/>Hz,<br/>Vibration<br/>Acceleration:(1.1 ~<br/>147) m/s<sup>2</sup><br/>Shock<br/>Acceleration:(1.1 ~<br/>980) m/s<sup>2</sup><br/>Depth of Immersion:1<br/>000 mm</p> | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호                            | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                         | 사업장 | 현장시험 |
|---------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| MIL-STD-810H<br>w/Change 1:2022 | 전기재료 및 부품 | TEST METHOD<br>STANDARD<br>ENVIRONMENTAL<br>ENGINEERING<br>CONSIDERATIONS AND<br>LABORATORY TESTS<br>500.6 Low Pressure<br>(Altitude)<br>Procedure I -<br>Storage/Air Transport.<br>Procedure II -<br>Operation/Air Carriage.<br>501.7 High temperature<br>502.7 Low temperature<br>503.7 Temperature<br>shock<br>507.6 Humidity<br>509.8 Salt Fog /<br>Corrosive Environments<br>[Exception]<br>Procedure III - Natural<br>Environment<br>512.6 Immersion<br>Procedure I -<br>Immersion<br>514.8 Vibration<br>[Exception]<br>Category 5 -<br>Truck/trailer - Loose<br>Cargo<br>516.8 Shock<br>[Exception]<br>Procedure VII -<br>Pendulum Impact<br>Procedure VIII -<br>Catapult<br>Lanch/Arrested Landing<br>519.8 Gunfire Shock<br>(Procedure III)<br>520.5 Combined<br>Environments<br>528.1 MECHANICAL<br>VIBRATIONS OF<br>SHIPBOARD<br>EQUIPMENT (TYPE I -<br>ENVIRONMENTAL<br>VIBRATION) | Air Pressure:(7.1 ~<br>101.33) kPa<br>Temperature: (-70 ~<br>150 °C<br>Temperature:(60 ~<br>200) °C<br>Temperature:(-65 ~ 0)<br>°C<br>Temperature:(10 ~ 90)<br>°C,<br>Humidity:(10 ~ 98) %<br>R.H.<br>Temperature:35 °C,<br>NaCl concentration:5<br>%,<br>Frequency:(4 ~ 2 000)<br>Hz,<br>Vibration<br>Acceleration:(1.1 ~<br>147) m/s <sup>2</sup><br>Shock Acceleration:<br>(1.1 ~ 980) m/s <sup>2</sup><br>Depth of Immersion:1<br>000 mm | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호              | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 시험범위                                                                                                                                                                                                                                                                                                                                                                                                                                         | 사업장 | 현장시험 |
|-------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| MIL-STD-810H:2019 | 전기재료 및 부품 | TEST METHOD<br>STANDARD<br>ENVIRONMENTAL<br>ENGINEERING<br>CONSIDERATIONS AND<br>LABORATORY TESTS<br>500.6 Low Pressure<br>(Altitude)<br>Procedure I -<br>Storage/Air Transport.<br>Procedure II -<br>Operation/Air Carriage.<br>501.7 High temperature<br>502.7 Low temperature<br>503.7 Temperature<br>shock<br>507.6 Humidity<br>509.7 Salt Fog<br>512.6 Immersion<br>Procedure I -<br>Immersion<br>514.8 Vibration<br>[Exception]<br>Category 5 -<br>Truck/trailer - Loose<br>Cargo<br>516.8 Shock<br>[Exception]<br>Procedure VII -<br>Pendulum Impact<br>Procedure VIII -<br>Catapult<br>Lanch/Arrested Landing<br>519.8 Gunfire Shock<br>(Procedure III)<br>520.5 Combined<br>Environments<br>528.1 MECHANICAL<br>VIBRATIONS OF<br>SHIPBOARD<br>EQUIPMENT (TYPE I -<br>ENVIRONMENTAL<br>VIBRATION) | Air Pressure:(7.1 ~<br>101.33) kPa<br>Temperature: (-70 ~<br>150 °C<br>Temperature:(60 ~<br>200) °C<br>Temperature:(-65 ~ 0)<br>°C<br>Temperature:(10 ~ 90)<br>°C,<br>Humidity:(10 ~ 98) %<br>R.H.<br>Temperature:35 °C,<br>NaCl concentration:5<br>%,<br>Frequency:(4 ~ 2 000)<br>Hz,<br>Vibration<br>Acceleration:(1.1 ~<br>147) m/s <sup>2</sup><br>Shock Acceleration:<br>(1.1 ~ 980) m/s <sup>2</sup><br>Depth of Immersion:1<br>000 mm | 소재지 | N    |

# Korea Laboratory Accreditation Scheme

제 KT197호

| 규격번호              | 제품 및 물질   | 규격명                                                                                                                                                                                                                                                                                                                                                                                          | 시험범위                                                                                                                                                                                                                                                                     | 사업장 | 현장시험 |
|-------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
| RTCA DO-160G:2010 | 전기재료 및 부품 | ENVIRONMENTAL CONDITIONS AND TEST PROCEDURES FOR AIRBORNE EQUIPMENT<br>Section 4 Temperature and Altitude<br>[Exception]<br>4.6.2 Decompression Test<br>4.6.3 Overpressure Test<br>Section 5 Temperature Variation<br>Section 6 Humidity<br>Section 7 Operational Shocks and Crash Safety<br>[Exception]<br>7.3.3 Test Procedure 2 (Sustained)<br>Section 8 Vibration<br>Section 14 Salt Fog | Air Pressure : (9.12 ~ 101.33) kPa<br>Temperature : (-55 ~ 85) °C<br>Humidity : (10 ~ 98) % R.H.<br>NaCl concentration : 5 %<br>Frequency : (4 ~ 2 000) Hz<br>Vibration Acceleration : (1.1 ~ 147) m/s <sup>2</sup><br>Shock Acceleration : (1.1 ~ 400) m/s <sup>2</sup> | 소재지 | N    |

끝.