

CERTIFICATE OF ACCREDITATION

HCT Co., Ltd.

Accreditation No. : KT197

Corporation Registration No. : 134411-0015635

Address of Laboratory : (Branch site) 2-6, Seoicheon-ro 578beongil / 73, Seoicheon-ro 578beongil / 74, Seoicheon-ro 578beongil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of KOREA
(Satellite facilities-2) 37, Cheoldobangmulgwan-ro, Uiwang-si, Gyeonggi-do, Republic of Korea
(Satellite facilities-3) 304, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea
(Satellite facilities-4) 234-2, Ijang-ro, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea

Date of Initial Accreditation : March 28, 2003

Validity of Accreditation : December 22, 2023 ~ December 21, 2027

Scope of Accreditation : Attached Annex

Date of issue : May 27, 2026

This testing laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to Joint ISO-ILAC-IAF Communiqué).



Kim daejin

Head

Korea Laboratory Accreditation Scheme

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No. KT197

03. Electrical Testing

03.004 Electrical materials and components

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------|-------------------------------------|---|--|------|---------------|
| IEC 60086-4:2014 | Electrical materials and components | Primary batteries – Part 4: Safety of lithium batteries | DC:(-5 ~ 150) V DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |
| IEC 62620:2014 | Electrical materials and components | 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 DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C | BS | N |
| IEC 62660-1:2018 | Electrical materials and components | Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 1:Performance testing | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C | BS | N |
| IEC 62660-2:2018 | Electrical materials and components | Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 2: Reliability and abuse testing | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C Vibration:(10 ~ 2 000) Hz, (0.14 ~ 20) (m/s ²) ² /Hz r.m.s. acceleration 27.8 m/s ² | BS | N |

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|-----------------------|-------------------------------------|---|---|------|---------------|
| IEC 62660-3:2016 | Electrical materials and components | Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 3: Safety requirements | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C | BS | N |
| IEC 63056:2020 | Electrical materials and components | 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 DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C | BS | N |
| IEC 63057:2020 | Electrical materials and components | 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 DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C Vibration:(7 ~ 50)Hz, (2 ~ 10) m/s ² | BS | N |
| KS C IEC 61960-3:2017 | Electrical materials and components | 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:(-5 ~ 150) V DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|-------------------------------------|---|--|------|---------------|
| KS C IEC 62133-1:2017 | Electrical materials and components | 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 DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Pressure:(10.0 ~ 11.6) kPa Vibration:(10 ~ 55) Hz, (Displacement amplitude 0.76 mm, Maximum displacement width 1.52 mm) | BS | N |
| KS C IEC 62133-2:2017 | Electrical materials and components | 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 DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |
| KS C IEC 62619:2022 | Electrical materials and components | 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 DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|--|---|------|---------------|
| KS C IEC 62620:2014 | Electrical materials and components | 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 DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C | BS | N |
| ANSI/CAN/UL 1973:2022 | Electrical materials and components | Batteries for Use in Stationary, And Motive Auxiliary Power Applications | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C | BS | N |
| EN 62133:2013 | Electrical materials and components | 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 DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Pressure:(10.0 ~ 11.6) kPa Vibration:(10 ~ 55) Hz, (Displacement amplitude 0.76 mm, Maximum displacement width 1.52 mm) | BS | N |
| EN 62133-1:2017 | Electrical materials and components | 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 DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Pressure: (10.0 ~ 11.6) kPa Vibration:(10 ~ 55) Hz, (Displacement amplitude 0.76 mm, Maximum displacement width 1.52 mm) | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------|-------------------------------------|--|---|------|---------------|
| EN 62133-2:2017 | Electrical materials and components | 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 DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |
| IEC 61960-3:2017 | Electrical materials and components | 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 DC current:(-250 ~ 250) A Temperature:(-65 ~ 200) °C | BS | N |
| IEC 62133:2012 | Electrical materials and components | 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 DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Pressure: (10.0 ~ 11.6) kPa Vibration:(10 ~ 55) Hz, (Displacement amplitude 0.76 mm, Maximum displacement width 1.52 mm) | BS | N |

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|---|-------------------------------------|--|---|------|---------------|
| SPS-C KBIA-1010 0-02-7487:2022 | Electrical materials and components | Secondary lithium batteries for small unmanned aerial vehicle — performance test method | DC:(0 ~ 80) V DC:(-250 ~ 250) A Temperature:(-50 ~ 100) °C | BS | N |
| E/ECE/324/Rev.2/ Add.135/Amend.1 -E/ECE/TRANS/5 05/Rev.2/Add.135 /Amend.1 | Electrical materials and components | Addendum 135 – Regulation No. 136, Amendment 1 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 [Exception] Annex 9E Fire resistance | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C Frequency:(7 ~ 200) Hz Acceleration:(1 ~ 100) m/s ² Shock Acceleration:(200 ~ 1 962) m/s ² | BS | N |

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|---|---|--|---|------|---------------|
| E/ECE/324/Rev.2/ Add.99/Rev.3/Am end.3-E/ECE/TRA NS/505/Rev.2/Ad d.99/Rev.3/Am d.3 | Electrical materials and components | Addendum 99 - Regulation No. 100, Revision 3- Amendment 3 Uniform provisions concerning the approval of vehicles with regard to specific requirements for the electric power train, Annex 9: REESS test procedures [Exception] Annex 9C Mechanical shock Annex 9E Fire resistance Annex 9F External short circuit protection 3.1.(d) For testing with a complete vehicle Annex 9G Overcharge protection 3.2.1 ~ 3.2.3 vehicle-based test Annex 9H Overdischarge protection 3.2.1 ~ 3.2.3 vehicle-based test Annex 9I Overtemperature protection 5 ~ 6 complete vehicle test Annex 9J Over-current protection 5 Overcurrent during charging using breakout harness. | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C Frequency:(7 ~ 200) Hz Acceleration:(1 ~ 100) m/s2 Force: Max 195 kN | BS | N |
| MOLIT Notice No.2025-73 (2.17.2025.) | Electrical materials and components | Performance and standards enforcement regulations for automobiles and automobile | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ | BS | N |

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|-------------|--------------------|--|--|------|---------------|
| | | <p>parts [Attachment 1] No. 48 Safety test for drive battery [Exception] 48.7.3 Fire resistance 48.7.4.3.4 External short circuit protection for testing with a complete vehicle 48.7.5.3.5.1 ~ 48.7.5.3.5.3 Overcharge protection for testing with a complete vehicle 48.7.6.3.5.1 ~ 48.7.6.3.5.3 Overdischarge protection for testing with a complete vehicle 48.7.7.2.2, 48.7.7.3.2 Over-temperature protection for testing with a complete vehicle 48.7.8.3.1 Over-current protection 48.7.10 Mechanical shock 48.8.3 Fire resistance 48.8.9 shock</p> <p>[Attachment 1] No. 48-2 Safety test of drive battery of two-wheeled vehicle [Exception] 48의2.7.3 Fire resistance 48-2.7.5.3.5.1 Overcharge protection for testing with a complete vehicle 48-2.7.6.3.5.1 Overdischarge protection for testing with a complete</p> | <p>200) °C Frequency:(7 ~ 200) Hz Acceleration:(1 ~ 100) m/s² Force: Max 195 kN Salinity:(1 ~ 15) %</p> | | |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------|-------------------------------------|--|--|------|---------------|
| | | vehicle 48-2.7.7.2.2, 48-2.7.7.3.2 Overtemperature protection for testing with a complete vehicle | | | |
| IEC 62619:2017 | Electrical materials and components | 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 DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C | BS | N |
| IEC 62281:2019 | Electrical materials and components | Safety of primary and secondary lithium cells and batteries during transport | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C Pressure: (10.0 ~ 11.6) kPa Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |
| IEC 62133-2:2017 | Electrical materials and components | 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 DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|--|---|------|---------------|
| IEC 62133-2:2017 /AMD1:2021 | Electrical materials and components | 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 DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |
| IEC 62619:2022 | Electrical materials and components | 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 DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C | BS | N |
| JIS C 62133-2:2020 | Electrical materials and components | 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 DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Pressure: (10.0 ~ 11.6) kPa Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|-------------------------------------|--|---|------|---------------|
| KC 62619:2019 | Electrical materials and components | 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 DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C | BS | N |
| KS C IEC 62133-2:2021 | Electrical materials and components | 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 DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |
| Ministerial Ordinance 1,Appendix 9:2008 | Electrical materials and components | Technical requirement by the Ministerial Ordinance for electrical appliance Ministerial Ordinance 1, Appendix 9 Lithium ion secondary batteries | DC:(-5 ~ 150) V DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Pressure: (10.0 ~ 11.6) kPa Vibration:(10 ~ 55) Hz, (Displacement amplitude 0.76 mm, Maximum displacement width 1.52 mm) | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------------|-------------------------------------|--|---|------|---------------|
| ST/SG/AC.10/11/R ev.7:2019 | Electrical materials and components | 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 DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C Pressure: (10.0 ~ 11.6) kPa Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |
| ST/SG/AC.10/11/R ev.7:Amend.1:2021 | Electrical materials and components | Recommendations on the TRANSPORT OF DANGEROUS GOODS–Manual of Tests and Criteria (38.3 Lithium metal and lithium ion batteries) | DC:(-5 ~ 150) V DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |
| UL 1642:2020 | Electrical materials and components | Lithium Batteries | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C Pressure: (10.0 ~ 11.6) kPa Vibration:(10 ~ 55) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |

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|------------------------|-------------------------------------|---|---|------|---------------|
| UL 1973:2018 | Electrical materials and components | Batteries for Use in Stationary, Vehicle Auxiliary Power and Light Electric Rail (LER) Applications | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C | BS | N |
| UL 2054:Edition 3:2022 | Electrical materials and components | Household and Commercial Batteries | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C Pressure: (10.0 ~ 11.6) kPa Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |
| UL 2580:2020 | Electrical materials and components | Batteries for Use In Electric Vehicles | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C Vibration:(10 ~ 2 000) Hz, (0.14 ~ 20) (m/s ²) ² /Hz r.m.s. acceleration 27.8 m/s ² | BS | N |
| UL 2595:2018 | Electrical materials and components | General requirements for Battery-Powered Appliances | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------|-------------------------------------|---|---|------|---------------|
| UL 62133:2017 | Electrical materials and components | 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 DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Pressure: (10.0 ~ 11.6) kPa Vibration:(10 ~ 55) Hz, (Displacement amplitude 0.76 mm, Maximum displacement width 1.52 mm) | BS | N |
| UL 62133-2:2020 | Electrical materials and components | 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 DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Vibration:(7 ~ 200)Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |
| KC 62619:2023 | Electrical materials and components | 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 DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C | BS | N |
| IEC 62660-3:2022 | Electrical materials and components | Secondary lithium-ion cells for the propulsion of electric road vehicles – Part 3: Safety requirements | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------|-------------------------------------|--|---|------|---------------|
| ANSI/CAN/UL/ULC 2271:2023 | Electrical materials and components | Batteries for Use In Light Electric Vehicle (LEV) Applications | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C | BS | N |
| IEC 60086-4:2019 | Electrical materials and components | Primary batteries – Part 4: Safety of lithium batteries | DC:(-5 ~ 150) V DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Pressure: (10.0 ~ 11.6) kPa Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |
| EN 62133-2:2017 +A1:2021 | Electrical materials and components | 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 DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 62133-1:2017 | Electrical materials and components | 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 DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Pressure: (10.0 ~ 11.6) kPa Vibration:(10 ~ 55) Hz, (Displacement amplitude 0.76 mm, Maximum displacement width 1.52 mm) | BS | N |
| KC 62133-2:2025 | Electrical materials and components | 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 DC:(-250 ~ 250) A Temperature:(-65 ~ 200) °C Pressure:(10.0 ~ 11.6) kPa Vibration:(7 ~ 200) Hz, (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |
| SPS-C KBIA-1010 4-03-7312:2025 | Electrical materials and components | Secondary Battery Systems for Battery Energy Storage - Performance and Safety Requirements | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A 온도:(-65 ~ 200) °C | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|---|--|---|------|---------------|
| ST/SG/AC.10/11/R ev.8/Amend.1:20 25 | Electrical materials and components | Manual of Tests and Criteria (38.3 Lithium metal, lithium ion and sodium ion batteries) | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C Pressure: (10.0 ~ 11.6) kPa Vibration:(7 ~ 200) Hz (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |
| ST/SG/AC.10/11/R ev.8:2023 | Electrical materials and components | Manual of Tests and Criteria (38.3 Lithium metal, lithium ion and sodium ion batteries) | DC:(-5 ~ 1 500) V DC:(-1 000 ~ 1 000) A Temperature:(-65 ~ 200) °C Pressure: (10.0 ~ 11.6) kPa Vibration:(7 ~ 200) Hz (Displacement amplitude 0.8 mm, Maximum displacement width 1.6 mm) | BS | N |

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03. Electrical Testing

03.005 Measuring instruments

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------------|-----------------------|---|--|------|---------------|
| IEC 61010-1 Edition 3.1(2017) | Measuring instruments | <p>Safety requirement for electrical equipment for measurement, control and laboratory use - Part 1: General requirements</p> <p>[Exception] 10.5.3 Insulating materials (Vicat) 11.7 Fluid pressure & leakage 12.2 Equipment producing ionizing radiation 12.3 UV Radiation 12.4 Microwave Radiation 12.5 Sound level 12.6 Laser sources 13.2.3 Implosion of cathode ray tubes Annex H Qualification of conformal coating for protection against pollution</p> | <p>Single-phase input voltage: Less than AC 300 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 5) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (0 ~ 200)°C Relative humidity: Less than 96 % R.H.</p> | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|-----------------------|--|--|------|---------------|
| KS C IEC 61010-1:2010 | Measuring instruments | <p>Safety requirement for electrical equipment for measurement, control and laboratory use - Part 1: General requirements</p> <p>[Exception]</p> <p>10.5.3 Insulating materials (Vicat)</p> <p>11.7 Fluid pressure & leakage</p> <p>12.2 Equipment producing ionizing radiation</p> <p>12.3 UV Radiation</p> <p>12.4 Microwave Radiation</p> <p>12.5 Sound level</p> <p>12.6 Laser sources</p> <p>13.2.3 Implosion of cathode ray tubes</p> <p>Annex H Qualification of conformal coating for protection against pollution</p> | <p>Single phase Input Voltage: less than AC 300 V</p> <p>Input Current: less than 20 A</p> <p>Frequency: (50 ~ 60) Hz</p> <p>Electric Strength: (0 ~ 5) kV</p> <p>Leakage: less than (0 ~ 10) mA</p> <p>Earth Continuity voltage: less than 12 V</p> <p>Earth Continuity current: less than 45 A</p> <p>Temperature: (0 ~ 200) °C</p> <p>Humidity: less than 96 % R.H.</p> | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------|-----------------------|---|--|------|---------------|
| EN 61010-1:2010 | Measuring instruments | <p>Safety requirement for electrical equipment for measurement, control and laboratory use - Part 1:General requirements</p> <p>[Exception]</p> <p>10.5.3 Insulating materials (Vicat)</p> <p>11.7 Fluid pressure & leakage</p> <p>12.2.1 Ionizing radiation</p> <p>12.3 UV Radiation</p> <p>12.4 Microwave Radiation</p> <p>12.5.1 Sound pressure level</p> <p>12.5.2 Ultrasonic pressure</p> <p>12.6 Laser sources</p> <p>13.2.3 High vacuum devices</p> <p>Annex H Qualification of conformal coating for protection against pollution</p> | <p>Single-phase input voltage: Less than AC 300 V</p> <p>Single-phase input current: Less than 20 A</p> <p>Frequency range: (50 to 60) Hz</p> <p>Withstand voltage range: (0 ~ 5) kV</p> <p>Leakage current range: (0 ~ 10) mA</p> <p>Ground continuity voltage: Less than AC/DC 12 V</p> <p>Ground continuity current: Less than AC/DC 45 A</p> <p>Temperature: (0 ~ 200)°C</p> <p>Relative humidity: Less than 96 % R.H.</p> | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-----------------------|---|--|------|---------------|
| EN 61010-1:2010 +A1:2019 | Measuring instruments | <p>Safety requirement for electrical equipment for measurement, control and laboratory use - Part 1:General requirements</p> <p>[Exception]</p> <p>10.5.3 Insulating materials (Vicat)</p> <p>11.7 Fluid pressure & leakage</p> <p>12.2 Equipment producing ionizing radiation</p> <p>12.3 UV Radiation</p> <p>12.4 Microwave Radiation</p> <p>12.5 Sound level</p> <p>12.6 Laser sources</p> <p>13.2.3 Implosion of cathode ray tubes</p> <p>Annex H Qualification of conformal coating for protection against pollution</p> | <p>Single-phase input voltage: Less than AC 300 V</p> <p>Single-phase input current: Less than 20 A</p> <p>Frequency range: (50 to 60) Hz</p> <p>Withstand voltage range: (0 ~ 5) kV</p> <p>Leakage current range: (0 ~ 10) mA</p> <p>Ground continuity voltage: Less than AC/DC 12 V</p> <p>Ground continuity current: Less than AC/DC 45 A</p> <p>Temperature: (0 ~ 200)°C</p> <p>Relative humidity: Less than 96 % R.H.</p> | BS | N |

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03. Electrical Testing

03.007 Electrical machinery for households

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60065:2001+ A1:2005+A2:2010 | Electrical machinery for households | <p>Audio, Video and similar electronic apparatus - Safety requirements</p> <p>[Exception]</p> <p>6.1 Ionizing radiation 6.2 Laser radiation 7.2 Softening Temperature 12.3 REMOTE CONTROL devices held in hand 14.2 Capacitor 14.6 Switch 16.1 Flexible cords, not complying with 16.1 etc. 17.7 Cord Torque 18. Mechanical strength of picture tubes and protection against splashing water ANNEX A Additional requirements for apparatus with protection against splashing water ANNEX H Insulation winding wires for use without interleaved insulation</p> | <p>Single-phase input voltage: Less than AC 600 V</p> <p>Single-phase input current: Less than 20 A</p> <p>Frequency range: (50 to 60) Hz</p> <p>Withstand voltage range: (0 ~ 5) kV</p> <p>Leakage current range: (0 ~ 10) mA</p> <p>Ground continuity voltage: Less than AC/DC 12 V</p> <p>Ground continuity current: Less than AC/DC 45 A</p> <p>Temperature: (-40 ~ 200)°C</p> <p>Relative humidity: Less than 98 % R.H.</p> <p>Insulation resistance reference voltage: Less than DC 1 000 V</p> <p>Insulation resistance measurement range: 4 000 MΩ</p> <p>Vibration frequency range: (10 ~ 55) Hz</p> <p>Amplitude: Less than 0.35 mm</p> | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

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

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-1:2010 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 1: General requirements [Exception] Clause 14 Transient overvoltage Clause 19.11.4 Abnormal operation Clause 22.32 Construction Clause 24 Components Annex F Capacitors Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation Annex T UV-C radiation effect on non-metallic materials | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-1:2010 /AMD1:2013 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 1: General requirements [Exception] Clause 14 Transient overvoltage Clause 19.11.4 Abnormal operation Clause 22.32 Construction Clause 24 Components Annex F Capacitors Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation Annex T UV-C radiation effect on non-metallic materials | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-1:2010 /AMD2:2016 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 1: General requirements [Exception] Clause 14 Transient overvoltage Clause 19.11.4 Abnormal operation Clause 22.32 Construction Clause 24 Components Annex F Capacitors Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation Annex T UV-C radiation effect on non-metallic materials | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-11:2008 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-11:Particular requirements for tumble dryers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-11:2008/AMD1:2012 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-11:Particular requirements for tumble dryers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-11:2008/AMD2:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-11:Particular requirements for tumble dryers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-14:2006 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-14:2006/AMD1:2008 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-65: 2002/AMD2:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-65:Particular requirements for air-cleaning appliances [Exception] Clause 32 - Radiation, toxicity and similar hazards | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-65: 2002/AMD1:2008 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-65:Particular requirements for air-cleaning appliances [Exception] Clause 32 - Radiation, toxicity and similar hazards | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|--|--|------|---------------|
| KC 60335-2-80:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-80:Particular requirements for fans | Input Voltage:less than AC 600 V Input Current:less than 20 A Leakage Current:less than 10 mA Earth Continuity Voltage:less than 8 V Earth Continuity Current:less than 45 A Electric strength Voltage:less than 10 kV Temperature:(- 40 ~ 850) °C Humidity:less than 98 % R.H. | BS | N |
| KC 60335-2-8:2016 | Electrical machinery for households | 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 | Input Voltage:less than AC 600 V Input Current:less than 20 A Leakage Current:less than 10 mA Earth Continuity Voltage:less than 8 V Earth Continuity Current:less than 45 A Electric strength Voltage:less than 10 kV Temperature:(- 40 ~ 850) °C Humidity:less than 98 % R.H. | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|--|--|------|---------------|
| KC 60335-2-58:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-58:Particular requirements for commercial electric dishwashing machines [exception] Annex BB - Ageing test for elastomeric parts Annex CC - Requirements to avoid backsiphonage | Input Voltage:less than AC 600 V Input Current:less than 20 A Leakage Current:less than 10 mA Earth Continuity Voltage:less than 8 V Earth Continuity Current:less than 45 A Electric strength Voltage:less than 10 kV Temperature:(- 40 ~ 850) °C Humidity:less than 98 % R.H. | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-23: 2016 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-2:2009/AMD2:2016 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-2:Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception] 21.101 – Energized hose crushing resistance test 21.102 – Energized hose abrasion resistance test 21.103 – Current-carrying hose bending resistance test 21.104 – Current-carrying hose torsion resistance test 21.105 – Low-temperature condition resistance test for current-carrying hosest | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-2:2009/AMD1:2012 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-2:Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception] 21.101 – Energized hose crushing resistance test 21.102 – Energized hose abrasion resistance test 21.103 – Current-carrying hose bending resistance test 21.104 – Current-carrying hose torsion resistance test 21.105 – Low-temperature condition resistance test for current-carrying hosest | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-8:2012 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-15:2012/AMD1:2016 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-15:Particular requirements for appliances for heating liquids [Exception] 22.103 Durability test of appliance coupler of cordless appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-16:2002/AMD2:2011 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-16:Particular requirements for food waste disposers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-42:2021 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens | <p>Single-phase input voltage: Less than AC 600 V</p> <p>Single-phase input current: Less than 20 A</p> <p>Frequency range: (50 ~ 60) Hz</p> <p>Withstand voltage range: (0 ~ 10) kV</p> <p>Leakage current range: (0 ~ 10) mA</p> <p>Ground continuity voltage: Less than AC/DC 12 V</p> <p>Ground continuity current: Less than AC/DC 45 A</p> <p>Temperature:(-40 ~ 850) °C</p> <p>Relative humidity: Less than 98 % R.H.</p> <p>Insulation resistance reference voltage: Less than DC 1 000 V</p> <p>Insulation resistance measurement range: 4 000 MΩ</p> | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-42: 2002/A2:2017 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|-------------------------------------|--|---|------|---------------|
| EN IEC 60335-2-59:2025/A11:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-42: 2002/A1:2008 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-42: 2002 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens | <p>Single-phase input voltage: Less than AC 600 V</p> <p>Single-phase input current: Less than 20 A</p> <p>Frequency range: (50 ~ 60) Hz</p> <p>Withstand voltage range: (0 ~ 10) kV</p> <p>Leakage current range: (0 ~ 10) mA</p> <p>Ground continuity voltage: Less than AC/DC 12 V</p> <p>Ground continuity current: Less than AC/DC 45 A</p> <p>Temperature:(-40 ~ 850) °C</p> <p>Relative humidity: Less than 98 % R.H.</p> <p>Insulation resistance reference voltage: Less than DC 1 000 V</p> <p>Insulation resistance measurement range: 4 000 MΩ</p> | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|---|---|------|---------------|
| KC 60335-2-13:2016 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|---|--|------|---------------|
| EN 60335-2-13:2010/A1:2019 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|---|--|------|---------------|
| EN 60335-2-13:2010/A11:2012 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|---|---|------|---------------|
| EN 60335-2-13:2010 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-13:2009/A1:2016 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-13:2009 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-13:2002 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-13:2021 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|---|------|---------------|
| KC 60335-2-9:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|-------------------------------------|---|--|------|---------------|
| EN IEC 60335-2-9:2023/A11:2023 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|-------------------------------------|---|--|------|---------------|
| EN IEC 60335-2-9:2023 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-9:2019 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-42: 2021/A1:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|---|--|------|---------------|
| EN 60335-2-42:2003 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|---|--|------|---------------|
| EN 60335-2-42:2003/A1:2008 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-65:2003 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-65:Particular requirements for air-cleaning appliances [Exception] Clause 32 - Radiation, toxicity and similar hazards | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-65:2003/A1:2008 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-65:Particular requirements for air-cleaning appliances [Exception] Clause 32 - Radiation, toxicity and similar hazards | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|---|--|------|---------------|
| EN 60335-2-48:2003/A12:2024 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|---|--|------|---------------|
| EN 60335-2-48:2003/A2:2019 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|---|--|------|---------------|
| EN 60335-2-48:2003/A11:2012 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|---|--|------|---------------|
| EN 60335-2-48:2003/A1:2008 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|---|---|------|---------------|
| EN 60335-2-48:2003 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-48: 2021 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-48: 2002/A2:2017 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-48: 2002/A1:2008 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-48: 2002 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|---|--|------|---------------|
| EN 60335-2-42:2003/A2:2024 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|---|--|------|---------------|
| EN 60335-2-42:2003/A12:2024 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens | <p>Single-phase input voltage: Less than AC 600 V</p> <p>Single-phase input current: Less than 20 A</p> <p>Frequency range: (50 ~ 60) Hz</p> <p>Withstand voltage range: (0 ~ 10) kV</p> <p>Leakage current range: (0 ~ 10) mA</p> <p>Ground continuity voltage: Less than AC/DC 12 V</p> <p>Ground continuity current: Less than AC/DC 45 A</p> <p>Temperature:(-40 ~ 850) °C</p> <p>Relative humidity: Less than 98 % R.H.</p> <p>Insulation resistance reference voltage: Less than DC 1 000 V</p> <p>Insulation resistance measurement range: 4 000 MΩ</p> | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|---|--|------|---------------|
| EN 60335-2-42:2003/A11:2012 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|--|---|------|---------------|
| KC 60335-2-14:2025 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|---|---|------|---------------|
| KC 60335-2-16:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-16:Particular requirements for food waste disposers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|--|---|------|---------------|
| KC 60335-2-21:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-21:Particular requirements for storage water heaters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|---|--|------|---------------|
| KC 60335-2-29:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers [Exclusions] 21.101 - Additional Test 21.102 - Additional Test | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|---|------|---------------|
| KC 60335-2-35:2 025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|--|------|---------------|
| KC 60335-2-37:2 025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-37: Particular requirements for commercial electric doughnut fryers and deep fat fryers | <p>Single-phase input voltage: Less than AC 600 V</p> <p>Single-phase input current: Less than 20 A</p> <p>Frequency range: (50 ~ 60) Hz</p> <p>Withstand voltage range: (0 ~ 10) kV</p> <p>Leakage current range: (0 ~ 10) mA</p> <p>Ground continuity voltage: Less than AC/DC 12 V</p> <p>Ground continuity current: Less than AC/DC 45 A</p> <p>Temperature:(-40 ~ 850) °C</p> <p>Relative humidity: Less than 98 % R.H.</p> <p>Insulation resistance reference voltage: Less than DC 1 000 V</p> <p>Insulation resistance measurement range: 4 000 MΩ</p> | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|--|---|------|---------------|
| KC 60335-2-39:2025 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|--|---|------|---------------|
| KC 60335-2-4:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|--|--|------|---------------|
| KC 60335-2-47:2 025 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|--|---|------|---------------|
| KC 60335-2-5:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-5:Particular requirements for dishwashers [Exception] Annex BB Ageing test for elastomeric parts | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|---|--|------|---------------|
| KC 60335-2-48:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|--|--|------|---------------|
| KC 60335-2-59:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|--|--|------|---------------|
| KC 60335-2-64:2025 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-50: 2002/AMD1:2007 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|--|---|------|---------------|
| KC 60335-2-75:2025 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|---|---|------|---------------|
| KC 60335-2-98:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |
| KC 62368-1:2025 | Electrical machinery for households | Audio/video, information and communication technology equipment – Part 1:Safety requirements [Exception] 5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly | Single phase Input Voltage:less than AC 300 V Input Current:less than 20 A Frequency:(50 ~ 60) Hz Electric Strength:(0 ~ 5) kV | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|--|--|------|---------------|
| | | <p>mounted / Vicat test B 50 of ISO 306</p> <p>5.4.1.4, 9.2.5 Maximum operating temperatures for materials, components and systems / Three phase voltage supply systems</p> <p>5.4.2, 5.4.3, 5.4.4</p> <p>Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112</p> <p>5.4.2, 5.4.3, 5.4.4, Annex X</p> <p>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</p> <p>5.4.1.5.3 Thermal cycling test procedure</p> <p>5.6.4.1 Determination of the overcurrent protective device and circuit (Annex R) / Source with at least 1500A short circuit</p> <p>10 Radiation / Laser(including laser diodes)</p> <p>10 Radiation / Light emitting diodes (LEDs)</p> <p>10 Radiation / Image Projector</p> <p>10 Radiation / X-ray</p> | <p>Leakage:less than 10 mA</p> <p>Earth Continuity voltage:less than 12 V</p> <p>Earth Continuity current:less than 45 A</p> <p>Temperature:(0 ~ 200) °C</p> <p>Humidity:less than 98 % R.H.</p> | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|---|------------|------|---------------|
| | | 10 Radiation / Effect of UV radiation on materials (Annex C) 10 Radiation / Human exposure to UV radiation (Annex C) Annex C UV radiation/ Carbon-arc lightexposure test Annex C UV radiation/ Xenon-arc lightexposure test Annex C UV radiation/Tensile strength, ISO 527 Annex C UV radiation/ Flexural strength, ISO 178 Annex C UV radiation/ Charpy impact, ISO 179 Annex C UV radiation/ Izod impact, ISO 180 Annex C UV radiation/ Tensile impact, ISO 8256 Annex G.5.3.4 / Test for FIW Annex G.7 Mains supply cords / Test equipment according IEC 60227 Annex G.9 / IC current limiters Annex G.13.6.2 / Test method and compliance criteria Annex G.13.6.2 / Abrasion resistance test Annex G.15 / Hydrostatic pressure Annex G.15 / Tubing and | | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|--|------------|------|---------------|
| | | fittings compatibility test Annex J / Insulated winding wires for use without interleaved insulation Annex M.7 / Concentration of hydrogen gas Annex M.8.2 / Protection against internal ignition from external spark sources – Spark Test Annex R / Limited Short-circuit test Annex S Tests for resistance to heat and fire / Distillate fuel oil as described in annex S.3.2 Annex U / Mechanical strength of CRTs and protection against the effects of implosion Annex Y.2 (Annex C) / Ultraviolet light conditioning test Annex Y 3 / Resistance to corrosion, water borne contaminants Annex Y.3.3 / Watersulphur dioxide test Annex Y.4.3 / Tensile strength and elongation tests Annex Y.4.4 / Compression test Annex Y.4.5 / Oil resistance Annex Y.5 / Protection from moisture Annex Y.5.3 / Water spray | | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|-------------------------------------|--|---|------|---------------|
| | | test Annex Y.5.5 / Protection from excessive dust Annex Y.6.2 / Impact test | | | |
| EN IEC 60335-2-4:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|-------------------------------------|--|--|------|---------------|
| EN IEC 60335-2-4:2025/A11:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-5:2012 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-5:Particular requirements for dishwashers [Exception] Annex BB Ageing test for elastomeric parts | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|---|--|------|---------------|
| KC 60335-2-42:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection ovens | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-5:2012/A1:2018 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-5:Particular requirements for dishwashers [Exception] Annex BB Ageing test for elastomeric parts | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-8:2015 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|---|------|---------------|
| EN IEC 60335-2-23:2023 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|-------------------------------------|---|---|------|---------------|
| EN IEC 60335-2-23:2023/A11:2023 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|-------------------------------------|---|---|------|---------------|
| EN IEC 60335-2-23:2023/A1:2023 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|--|---|------|---------------|
| EN IEC 60335-2-58:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-58:Particular requirements for commercial electric dishwashing machines [Exception] Annex BB - Ageing test for elastomeric parts Annex CC - Requirements to avoid backsiphonage | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|-------------------------------------|--|---|------|---------------|
| EN IEC 60335-2-58:2025/A11:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-58:Particular requirements for commercial electric dishwashing machines [Exception] Annex BB - Ageing test for elastomeric parts Annex CC - Requirements to avoid backsiphonage | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|---|------|---------------|
| KC 60335-2-65:2 025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances [Exception] Clause 32 - Radiation, toxicity and similar hazards | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|---|------|---------------|
| K60335-2-85:20 07 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-50: 2002/AMD2:2017 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|---|---|------|---------------|
| EN 60335-2-50:2003+A1:2008 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-50:2021 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-59: 2002 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-59: 2002/AMD1:2006 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-59: 2002/AMD2:2009 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|-------------------------------------|--|--|------|---------------|
| EN 60335-2-59:2003+A1:2006+A2:2009+A11:2018 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-59:2021 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|--|--|------|---------------|
| EN 60335-2-64:2000+A1:2002 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-64: 2002 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|--|--|------|---------------|
| EN IEC 60335-2-59:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-64: 2002/AMD1:2007 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-64: Particular requirements for commercial electric kitchen machines | <p>Single-phase input voltage: Less than AC 600 V</p> <p>Single-phase input current: Less than 20 A</p> <p>Frequency range: (50 ~ 60) Hz</p> <p>Withstand voltage range: (0 ~ 10) kV</p> <p>Leakage current range: (0 ~ 10) mA</p> <p>Ground continuity voltage: Less than AC/DC 12 V</p> <p>Ground continuity current: Less than AC/DC 45 A</p> <p>Temperature:(-40 ~ 850) °C</p> <p>Relative humidity: Less than 98 % R.H.</p> <p>Insulation resistance reference voltage: Less than DC 1 000 V</p> <p>Insulation resistance measurement range: 4 000 MΩ</p> | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-64: 2021 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-64: 2021/AMD1:2024 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-85: 2002 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-85: 2002/AMD1:2008 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-85: 2002/AMD2:2017 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|-------------------------------------|---|---|------|---------------|
| EN 60335-2-85:2003+A1:2008+A11:2018+A2:2020 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|---|---|------|---------------|
| KC 60335-2-50:2015 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|---|---|------|---------------|
| KC 60335-2-44:2021 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|--|--|------|---------------|
| KC 60335-2-43:2022 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|---|------|---------------|
| KC 60335-2-3:2016 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|---|--|------|---------------|
| KC 60335-2-31:2022 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-98: 2023 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-85: 2022 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|-------------------------------------|---|---|------|---------------|
| EN 60335-2-98:2003+A1:2005+A2:2008+A11:2019 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-98: 2002/AMD2:2008 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-98: 2002/AMD1:2004 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-98: 2002 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-2:2009 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-2:Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception] 21.101 – Energized hose crushing resistance test 21.102 – Energized hose abrasion resistance test 21.103 – Current-carrying hose bending resistance test 21.104 – Current-carrying hose torsion resistance test 21.105 – Low-temperature condition resistance test for current-carrying hosest | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-16:2002 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-16:Particular requirements for food waste disposers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------|-------------------------------------|--|--|------|---------------|
| KC 60335-1:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 1: General requirements [Exception] Clause 14 Transient overvoltage Clause 19.11.4 Abnormal operation Clause 22.32 Construction Clause 24 Components Annex F Capacitors Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation Annex T UV-C radiation effect on non-metallic materials | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-8:2022 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------|-------------------------------------|---|---|------|---------------|
| EN IEC 60335-2-32:2021 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-32:Particular requirements for massage appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------|-------------------------------------|--|--|------|---------------|
| EN 60335-2-4:2010/A1:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-4:Particular requirements for spin extractors | <p>Single-phase input voltage: Less than AC 600 V</p> <p>Single-phase input current: Less than 20 A</p> <p>Frequency range: (50 to 60) Hz</p> <p>Withstand voltage range: (0 ~ 10) kV</p> <p>Leakage current range: (0 ~ 10) mA</p> <p>Ground continuity voltage: Less than AC/DC 12 V</p> <p>Ground continuity current: Less than AC/DC 45 A</p> <p>Temperature:(-40 ~ 850)°C</p> <p>Relative humidity: Less than 98 % R.H.</p> <p>Insulation resistance reference voltage: Less than DC 1 000 V</p> <p>Insulation resistance measurement range: 4 000 MΩ</p> | BS | N |
| IEC 62368-1:2014 | Electrical machinery for households | <p>Audio/video, information and communication technology equipment – Part 1:Safety requirements</p> <p>[Exception]</p> <p>5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly</p> | <p>Single-phase input voltage: Less than AC 600 V</p> <p>Single-phase input current: Less than 20 A</p> <p>Frequency range: (50 to 60) Hz</p> <p>Withstand voltage range: (0 ~ 10) kV</p> | BS | N |

Korea Laboratory Accreditation Scheme

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|--|--|------|---------------|
| | | <p>mounted / Vicat test B 50 of ISO 306</p> <p>5.4.1.4, 9.2.5 Maximum operating temperatures for materials, components and systems / Three phase voltage supply systems</p> <p>5.4.2, 5.4.3, 5.4.4</p> <p>Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112</p> <p>5.4.2, 5.4.3, 5.4.4</p> <p>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</p> <p>5.4.1.5.3 Thermal cycling test procedure</p> <p>5.6.4.1 Determination of the overcurrent protective device and circuit (Annex R) / Source with at least 1500A short circuit</p> <p>10 Radiations / Laser (including laser diodes)</p> <p>10 Radiations / Light emitting diodes (LEDs)</p> <p>10 Radiations / X-ray</p> <p>10 Radiations / Effect of UV radiation on materials (Annex C)</p> | <p>Leakage current range: (0 ~ 10) mA</p> <p>Ground continuity voltage: Less than AC/DC 12 V</p> <p>Ground continuity current: Less than AC/DC 45 A</p> <p>Temperature:(-40 ~ 850)°C</p> <p>Relative humidity: Less than 98 % R.H.</p> <p>Insulation resistance reference voltage: Less than DC 1 000 V</p> <p>Insulation resistance measurement range: 4 000 MΩ</p> | | |

Korea Laboratory Accreditation Scheme

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|---|------------|------|---------------|
| | | <p>10 Radiations / Human exposure to UV radiation (Annex C)</p> <p>Annex G.7 Mains supply cords / Test equipment according IEC 60227</p> <p>Annex G.9 IC current limiters</p> <p>Annex G.13.6.2 Test method and compliance criteria</p> <p>Annex G.13.6.2 Abrasion resistance test</p> <p>Annex G.15 Hydrostatic pressure</p> <p>Annex G.15 Tubing and fittings compatibility test</p> <p>Annex J Insulated winding wires for use without interleaved insulation</p> <p>Annex M.8.2 Protection against internal ignition from external spark sources – Spark Test</p> <p>Annex S Tests for resistance to heat and fire / Distillate fuel oil as described in Annex S.3.2</p> <p>Annex U Mechanical strength of CRTs and protection against the effects of implosion</p> | | | |

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No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60950-1:2005+A1:2009+A2:2013 | Electrical machinery for households | Information technology equipment - Safety Part 1:General requirements [Exception] 2.10.8.4 Abrasion resistance test 3.2.5.1 AC power supply cords 4.2.8 Cathode ray tubes 4.3.12 Flammable liquids 4.3.13.2 Ionizing radiation 4.3.13.3 UV 4.3.13.4 Human exposure to ultraviolet (UV) radiation 4.3.13.5 Laser ANNEX A.3 Hot flaming oil test ANNEX H Ionizing radiation ANNEX AA Mandrel test | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-80:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-80:Particular requirements for fans | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-80: 2002/AMD2:2008 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-80:Particular requirements for fans | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-15:2012 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-15:Particular requirements for appliances for heating liquids [Exception] 22.103 Durability test of appliance coupler of cordless appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-14:2016 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-14:2006/AMD2:2012 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-65: 2002 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-65:Particular requirements for air-cleaning appliances [Exception] Clause 32 - Radiation, toxicity and similar hazards | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-32: 2002 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-32:Particular requirements for massage appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|--|--|------|---------------|
| KC 60335-2-11:2021 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-11:Particular requirements for tumble dryers | Input Voltage:less than AC 600 V Input Current:less than 20 A Leakage Current:less than 10 mA Earth Continuity Voltage:less than 8 V Earth Continuity Current:less than 45 A Electric strength Voltage:less than 10 kV Temperature:(- 40 ~ 850) °C Humidity:less than 98 % R.H. | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-75:2004/A12:2010 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-32: 2002/AMD2:2013 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-32:Particular requirements for massage appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-8:2015/A2:2022 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------|-------------------------------------|---|---|------|---------------|
| EN 60335-2-2:2010/A1:2013 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-2:Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception] 21.101 – Energized hose crushing resistance test 21.102 – Energized hose abrasion resistance test 21.103 – Current-carrying hose bending resistance test 21.104 – Current-carrying hose torsion resistance test 21.105 – Low-temperature condition resistance test for current-carrying hoses | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-16:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-16:Particular requirements for food waste disposers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-15:2016 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-15:Particular requirements for appliances for heating liquids [Exception] 22.103 Durability test of appliance coupler of cordless appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------------|-------------------------------------|---|---|------|---------------|
| EN 60335-2-16:2003+A1:2008+A2:2012 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-16:Particular requirements for food waste disposers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-21:2012 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-21:Particular requirements for storage water heaters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-5:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-5:Particular requirements for dishwashers [Exception] Annex BB Ageing test for elastomeric parts | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-4:2008/AMD2:2017 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-4:Particular requirements for spin extractors | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |
| AS/NZS 62368.1:2022 | Electrical machinery for households | Audio/video, information and communication technology equipment – Part 1:Safety requirements [Exception] 5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|--|--|------|---------------|
| | | <p>mounted / Vicat test B 50 of ISO 306</p> <p>5.4.1.4, 9.2.5 Maximum operating temperatures for materials, components and systems / Three phase voltage supply systems</p> <p>5.4.2, 5.4.3, 5.4.4</p> <p>Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112</p> <p>5.4.2, 5.4.3, 5.4.4</p> <p>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</p> <p>Thermal cycling test procedure 5.6.4.1</p> <p>Determination of the overcurrent protective device and circuit (Annex R) / Source with at least 1500A short circuit</p> <p>10 Radiations / Laser (including laser diodes) 10 Radiations / Light emitting diodes (LEDs) 10 Radiations / X-ray 10 Radiations / Effect of UV radiation on materials (Annex C)</p> <p>10 Radiations / Human</p> | <p>Leakage current range: (0 ~ 10) mA</p> <p>Ground continuity voltage: Less than AC/DC 12 V</p> <p>Ground continuity current: Less than AC/DC 45 A</p> <p>Temperature:(-40 ~ 850)°C</p> <p>Relative humidity: Less than 98 % R.H.</p> <p>Insulation resistance reference voltage: Less than DC 1 000 V</p> <p>Insulation resistance measurement range: 4 000 MΩ</p> | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|-------------------------------------|--|---|------|---------------|
| | | exposure to UV radiation (Annex C) | | | |
| IEC 60335-2-14:2016/AMD1:2019 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-80: 2002/AMD1:2004 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-80:Particular requirements for fans | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-23: 2016/AMD1:2019 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-5:2015/A1:2020 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-5:Particular requirements for dishwashers [Exception] Annex BB Ageing test for elastomeric parts | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------|-------------------------------------|--|---|------|---------------|
| EN IEC 60335-2-11:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-11:Particular requirements for tumble dryers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-21:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-21:Particular requirements for storage water heaters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-58:2005 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-58:Particular requirements for commercial electric dishwashing machines [Exception] Annex BB - Ageing test for elastomeric parts Annex CC - Requirements to avoid backsiphonage | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-5:2015/A11:2019 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-5:Particular requirements for dishwashers [Exception] Annex BB Ageing test for elastomeric parts | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-58: 2002/AMD2:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-58:Particular requirements for commercial electric dishwashing machines [Exception] Annex BB - Ageing test for elastomeric parts Annex CC - Requirements to avoid backsiphonage | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-58: 2002/AMD1:2008 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-58: 2002 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-32: 2002/AMD1:2008 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-32:Particular requirements for massage appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|---|---|------|---------------|
| EN 60335-2-80:2003+A2:2009 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-80:Particular requirements for fans | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-8:2015/A1:2016 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------|-------------------------------------|--|--|------|---------------|
| KC 60335-2-23:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-23:Particular requirements for appliances for skin or hair care | Input Voltage:less than AC 600 V Input Current:less than 20 A Leakage Current:less than 10 mA Earth Continuity Voltage:less than 8 V Earth Continuity Current:less than 45 A Electric strength Voltage:less than 10 kV Temperature:(- 40 ~ 850) °C Humidity:less than 98 % R.H. | BS | N |
| AS/NZS 62368.1:2018 | Electrical machinery for households | Audio/video, information and communication technology equipment – Part 1:Safety requirements [Exception] 5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly mounted / Vicat test B 50 of ISO 306 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 Clearances, creepage distance, solid insulation / Test equipment for tracking | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|---|---|------|---------------|
| | | index per IEC 60112 5.4.2, 5.4.3, 5.4.4 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 10 Radiations / Laser (including laser diodes) 10 Radiations / Light emitting diodes (LEDs) 10 Radiations / X-ray 10 Radiations / Effect of UV radiation on materials (Annex C) 10 Radiations / Human exposure to UV radiation (Annex C) Annex G.7 Mains supply cords / Test equipment according IEC 60227 Annex G.9 IC current limiters Annex G.13.6.2 Test method and compliance criteria Annex G.13.6.2 Abrasion | than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|--|------------|------|---------------|
| | | resistance test Annex G.15 Hydrostatic pressure Annex G.15 Tubing and fittings compatibility test Annex J Insulated winding wires for use without interleaved insulation Annex M.8.2 Protection against internal ignition from external spark sources – Spark Test Annex S Tests for resistance to heat and fire / Distillate fuel oil as described in Annex S.3.2 Annex U Mechanical strength of CRTs and protection against the effects of implosion | | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-1:2012 /A11:2014 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 1: General requirements [Exception] Clause 14 Transient overvoltage Clause 19.11.4 Abnormal operation Clause 22.32 Construction Clause 24 Components Annex F Capacitors Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation Annex T UV-C radiation effect on non-metallic materials | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |
| IEC 62368-1:2018 | Electrical machinery for households | Audio/video, information and communication technology equipment – Part 1:Safety requirements [Exception] 5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|--|--|------|---------------|
| | | <p>mounted / Vicat test B 50 of ISO 306</p> <p>5.4.1.4, 9.2.5 Maximum operating temperatures for materials, components and systems / Three phase voltage supply systems</p> <p>5.4.2, 5.4.3, 5.4.4</p> <p>Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112</p> <p>5.4.2, 5.4.3, 5.4.4, Annex X</p> <p>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</p> <p>5.4.1.5.3 Thermal cycling test procedure</p> <p>5.6.4.1 Determination of the overcurrent protective device and circuit (Annex R) / Source with at least 1500A short circuit</p> <p>10 Radiation / Laser (including laser diodes)</p> <p>10 Radiation / Light emitting diodes (LEDs)</p> <p>10 Radiation / Image Projector</p> <p>10 Radiation / X-ray</p> <p>10 Radiation / Effect of UV</p> | <p>Leakage current range: (0 ~ 10) mA</p> <p>Ground continuity voltage: Less than AC/DC 12 V</p> <p>Ground continuity current: Less than AC/DC 45 A</p> <p>Temperature:(-40 ~ 850)°C</p> <p>Relative humidity: Less than 98 % R.H.</p> <p>Insulation resistance reference voltage: Less than DC 1 000 V</p> <p>Insulation resistance measurement range: 4 000 MΩ</p> | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|--|------------|------|---------------|
| | | radiation on materials (Annex C) 10 Radiation / Human exposure to UV radiation (Annex C) Annex C UV radiation / Carbon-arc light-exposure test Annex C UV radiation / Xenon-arc light-exposure test Annex C UV radiation /Tensile strength, ISO 527 Annex C UV radiation / Flexural strength, ISO 178 Annex C UV radiation / Charpy impact, ISO 179 Annex C UV radiation / Izod impact, ISO 180 Annex C UV radiation / Tensile impact, ISO 8256 Annex G.5.3.4 / Test for FIW Annex G.7 Mains supply cords / Test equipment according IEC 60227 Annex G.9 / IC current limiters Annex G.13.6.2 / Test method and compliance criteria Annex G.13.6.2 / Abrasion resistance test Annex G.15 / Hydrostatic pressure Annex G.15 / Tubing and fittings compatibility test | | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|--|------------|------|---------------|
| | | <p>Annex J / Insulated winding wires for use without interleaved insulation</p> <p>Annex M.7 / Concentration of hydrogen gas</p> <p>Annex M.8.2 / Protection against internal ignition from external spark sources – Spark Test</p> <p>Annex R / Limited Short-circuit test</p> <p>Annex S Tests for resistance to heat and fire / Distillate fuel oil as described in annex S.3.2</p> <p>Annex U / Mechanical strength of CRTs and protection against the effects of implosion</p> <p>Annex Y.2 (Annex C) / Ultraviolet light conditioning test</p> <p>Annex Y 3 / Resistance to corrosion, water borne contaminants</p> <p>Annex Y.3.3 / Water-sulphur dioxide test</p> <p>Annex Y.4.3 / Tensile strength and elongation tests</p> <p>Annex Y.4.4 / Compression test</p> <p>Annex Y.4.5 / Oil resistance</p> <p>Annex Y.5 / Protection from moisture</p> <p>Annex Y.5.3 / Water spray test</p> | | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|--|---|------|---------------|
| | | Annex Y.5.5 / Protection from excessive dust Annex Y.6.2 / Impact test | | | |
| IEC 60335-2-58:2017 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-58:Particular requirements for commercial electric dishwashing machines [Exception] Annex BB - Ageing test for elastomeric parts Annex CC - Requirements to avoid backsiphonage | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-11:2019 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-11:Particular requirements for tumble dryers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-32: 2019 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-32:Particular requirements for massage appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|---|---|------|---------------|
| EN 60335-2-16:2003/A11:2018 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-16:Particular requirements for food waste disposers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|--|------|---------------|
| KC 60335-2-2:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-2:Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception] 21.101 – Energized hose crushing resistance test 21.102 – Energized hose abrasion resistance test 21.103 – Current-carrying hose bending resistance test 21.104 – Current-carrying hose torsion resistance test 21.105 – Low-temperature condition resistance test for current-carrying hoses | Input Voltage:less than AC 600 V Input Current:less than 20 A Leakage Current:less than 10 mA Earth Continuity Voltage:less than 8 V Earth Continuity Current:less than 45 A Electric strength Voltage:less than 10 kV Temperature:(- 40 ~ 850) °C Humidity:less than 98 % R.H. | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|--|--|------|---------------|
| KC 60335-2-15:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-15:Particular requirements for appliances for heating liquids [exception] 22.103 Durability test of appliance coupler of cordless appliances | Input Voltage:less than AC 600 V Input Current:less than 20 A Leakage Current:less than 10 mA Temperature:(- 40 ~ 200) °C Earth Continuity Voltage:less than 8 V Earth Continuity Current:less than 45 A Electric strength Voltage:less than 10 kV Insulation Resistance:less than 4 MΩ Humidity:less than 98 % R.H. | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-80: 2002 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-80:Particular requirements for fans | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-8:2012/AMD1:2015 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-16:2002/AMD1:2008 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-16:Particular requirements for food waste disposers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-8:2012/AMD2:2018 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |
| EN IEC 62368-1:2020+A11:2020 | Electrical machinery for households | Audio/video, information and communication technology equipment – Part 1:Safety requirements [Exception] 5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|---|--|------|---------------|
| | | mounted / Vicat test B 50 of ISO 306 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 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 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 10 Radiation / Laser (including laser diodes) 10 Radiation / Light emitting diodes (LEDs) 10 Radiation / Image Projector 10 Radiation / X-ray 10 Radiation / Effect of UV | Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|---|------------|------|---------------|
| | | radiation on materials (Annex C) 10 Radiation / Human exposure to UV radiation (Annex C) Annex C UV radiation / Carbon-arc light-exposure test Annex C UV radiation / Xenon-arc light-exposure test Annex C UV radiation / Tensile strength, ISO 527 Annex C UV radiation / Flexural strength, ISO 178 Annex C UV radiation / Charpy impact, ISO 179 Annex C UV radiation / Izod impact, ISO 180 Annex C UV radiation / Tensile impact, ISO 8256 Annex G.5.3.4 / Test for FIW Annex G.7 Mains supply cords / Test equipment according IEC 60227 Annex G.9 / IC current limiters Annex G.13.6.2 / Test method and compliance criteria Annex G.13.6.2 / Abrasion resistance test Annex G.15 / Hydrostatic pressure Annex G.15 / Tubing and fittings compatibility test | | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|--|------------|------|---------------|
| | | <p>Annex J / Insulated winding wires for use without interleaved insulation</p> <p>Annex M.7 / Concentration of hydrogen gas</p> <p>Annex M.8.2 / Protection against internal ignition from external spark sources – Spark Test</p> <p>Annex R / Limited Short-circuit test</p> <p>Annex S Tests for resistance to heat and fire / Distillate fuel oil as described in annex S.3.2</p> <p>Annex U / Mechanical strength of CRTs and protection against the effects of implosion</p> <p>Annex Y.2 (Annex C) / Ultraviolet light conditioning test</p> <p>Annex Y 3 / Resistance to corrosion, water borne contaminants</p> <p>Annex Y.3.3 / Water-sulphur dioxide test</p> <p>Annex Y.4.3 / Tensile strength and elongation tests</p> <p>Annex Y.4.4 / Compression test</p> <p>Annex Y.4.5 / Oil resistance</p> <p>Annex Y.5 / Protection from moisture</p> <p>Annex Y.5.3 / Water spray test</p> | | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------|-------------------------------------|---|---|------|---------------|
| | | Annex Y.5.5 / Protection from excessive dust Annex Y.6.2 / Impact test | | | |
| EN IEC 62368-1:2020 | Electrical machinery for households | Audio/video, information and communication technology equipment – Part 1: Safety requirements [Exception] 5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly mounted / Vicat test B 50 of ISO 306 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 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 5.4.1.5.3 Thermal cycling test procedure 5.6.4.1 Determination of the | Single-phase input voltage: Less than AC600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 85) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|--|------------|------|---------------|
| | | overcurrent protective device and circuit (Annex R) / Source with at least 1500A short circuit 10 Radiation / Laser (including laser diodes) 10 Radiation / Light emitting diodes (LEDs) 10 Radiation / Image Projector 10 Radiation / X-ray 10 Radiation / Effect of UV radiation on materials (Annex C) 10 Radiation / Human exposure to UV radiation (Annex C) Annex C UV radiation / Carbon-arc light-exposure test Annex C UV radiation / Xenon-arc light-exposure test Annex C UV radiation / Tensile strength, ISO 527 Annex C UV radiation / Flexural strength, ISO 178 Annex C UV radiation / Charpy impact, ISO 179 Annex C UV radiation / Izod impact, ISO 180 Annex C UV radiation / Tensile impact, ISO 8256 Annex G.5.3.4 / Test for FIW Annex G.7 Mains supply cords / Test equipment | | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|---|------------|------|---------------|
| | | <p>according IEC 60227 Annex G.9 / IC current limiters Annex G.13.6.2 / Test method and compliance criteria Annex G.13.6.2 / Abrasion resistance test Annex G.15 / Hydrostatic pressure Annex G.15 / Tubing and fittings compatibility test Annex J / Insulated winding wires for use without interleaved insulation Annex M.7 / Concentration of hydrogen gas Annex M.8.2 / Protection against internal ignition from external spark sources – Spark Test Annex R / Limited Short-circuit test Annex S Tests for resistance to heat and fire / Distillate fuel oil as described in annex S.3.2 Annex U / Mechanical strength of CRTs and protection against the effects of implosion Annex Y.2 (Annex C) / Ultraviolet light conditioning test Annex Y 3 / Resistance to corrosion, water borne contaminants</p> | | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------|-------------------------------------|---|--|------|---------------|
| | | Annex Y.3.3 / Water-sulphur dioxide test Annex Y.4.3 / Tensile strength and elongation tests Annex Y.4.4 / Compression test Annex Y.4.5 / Oil resistance Annex Y.5 / Protection from moisture Annex Y.5.3 / Water spray test Annex Y.5.5 / Protection from excessive dust Annex Y.6.2 / Impact test | | | |
| IEC 62368-1:2023 | Electrical machinery for households | Audio/video, information and communication technology equipment – Part 1: Safety requirements [Exception] 5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly mounted / Vicat test B 50 of ISO 306 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 Clearances, creepage distance, solid insulation / Test equipment for tracking index per IEC 60112 5.4.2, 5.4.3, 5.4.4, Annex X | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 85)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|--|---|------|---------------|
| | | <p>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</p> <p>5.4.1.5.3 Thermal cycling test procedure</p> <p>5.6.4.1 Determination of the overcurrent protective device and circuit (Annex R) / Source with at least 1500A short circuit</p> <p>10 Radiation / Laser (including laser diodes)</p> <p>10 Radiation / Light emitting diodes (LEDs)</p> <p>10 Radiation / Image Projector</p> <p>10 Radiation / X-ray</p> <p>10 Radiation / Effect of UV radiation on materials (Annex C)</p> <p>10 Radiation / Human exposure to UV radiation (Annex C)</p> <p>Annex C UV radiation / Carbon-arc light-exposure test</p> <p>Annex C UV radiation / Xenon-arc light-exposure test</p> <p>Annex C UV radiation /Tensile strength, ISO 527</p> | <p>000 VInsulation resistance measurement range: 4 000 MΩ</p> | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|---|------------|------|---------------|
| | | <p>Annex C UV radiation / Flexural strength, ISO 178</p> <p>Annex C UV radiation / Charpy impact, ISO 179</p> <p>Annex C UV radiation / Izod impact, ISO 180</p> <p>Annex C UV radiation / Tensile impact, ISO 8256</p> <p>Annex G.5.3.4 / Test for FIW</p> <p>Annex G.7 Mains supply cords / Test equipment according IEC 60227</p> <p>Annex G.9 / IC current limiters</p> <p>Annex G.13.6.2 / Test method and compliance criteria</p> <p>Annex G.13.6.2 / Abrasion resistance test</p> <p>Annex G.15 / Hydrostatic pressure</p> <p>Annex G.15 / Tubing and fittings compatibility test</p> <p>Annex J / Insulated winding wires for use without interleaved insulation</p> <p>Annex M.7 / Concentration of hydrogen gas</p> <p>Annex M.8.2 / Protection against internal ignition from external spark sources – Spark Test</p> <p>Annex R / Limited Short-circuit test</p> <p>Annex S Tests for resistance to heat and fire /</p> | | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|-------------------------------------|--|---|------|---------------|
| | | Distillate fuel oil as described in annex S.3.2 Annex U / Mechanical strength of CRTs and protection against the effects of implosion Annex Y.2 (Annex C) / Ultraviolet light conditioning test Annex Y 3 / Resistance to corrosion, water borne contaminants Annex Y.3.3 / Water-sulphur dioxide test Annex Y.4.3 / Tensile strength and elongation tests Annex Y.4.4 / Compression test Annex Y.4.5 / Oil resistance Annex Y.5 / Protection from moisture Annex Y.5.3 / Water spray test Annex Y.5.5 / Protection from excessive dust Annex Y.6.2 / Impact test | | | |
| EN IEC 62368-1:2024+A11:2024 | Electrical machinery for households | Audio/video, information and communication technology equipment – Part 1:Safety requirements [Exception] 5.4.1.10 Thermoplastic parts on which conductive metallic parts are directly mounted / Vicat test B 50 of | Single-phase inputvoltage: Less than AC600 V Single-phase inputcurrent: Less than 20 A Frequency range: (50to 60) Hz Withstand voltagerange: (0 ~ 10) kV Leakage current range:(0 ~ 10) | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|---|---|------|---------------|
| | | ISO 306 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 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 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 10 Radiation / Laser (including laser diodes) 10 Radiation / Light emitting diodes (LEDs) 10 Radiation / Image Projector 10 Radiation / X-ray 10 Radiation / Effect of UV radiation on materials | mAGround continuityvoltage: Less thanAC/DC 12 VGround continuitycurrent: Less thanAC/DC 45 ATemperature:(-40 ~850)°CRelative humidity: Lessthan 98 % R.H.Insulation resistancereference voltage: Lessthan DC 1 000 VInsulation resistance measurement range: 4 000 MΩ | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|--|------------|------|---------------|
| | | (Annex C) 10 Radiation / Human exposure to UV radiation (Annex C) Annex C UV radiation / Carbon-arc light-exposure test Annex C UV radiation / Xenon-arc light-exposure test Annex C UV radiation / Tensile strength, ISO 527 Annex C UV radiation / Flexural strength, ISO 178 Annex C UV radiation / Charpy impact, ISO 179 Annex C UV radiation / Izod impact, ISO 180 Annex C UV radiation / Tensile impact, ISO 8256 Annex G.5.3.4 / Test for FIW Annex G.7 Mains supply cords / Test equipment according IEC 60227 Annex G.9 / IC current limiters Annex G.13.6.2 / Test method and compliance criteria Annex G.13.6.2 / Abrasion resistance test Annex G.15 / Hydrostatic pressure Annex G.15 / Tubing and fittings compatibility test Annex J / Insulated winding | | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|--|------------|------|---------------|
| | | <p>wires for use without interleaved insulation</p> <p>Annex M.7 / Concentration of hydrogen gas</p> <p>Annex M.8.2 / Protection against internal ignition from external spark sources – Spark Test</p> <p>Annex R / Limited Short-circuit test</p> <p>Annex S Tests for resistance to heat and fire / Distillate fuel oil as described in annex S.3.2</p> <p>Annex U / Mechanical strength of CRTs and protection against the effects of implosion</p> <p>Annex Y.2 (Annex C) / Ultraviolet light conditioning test</p> <p>Annex Y 3 / Resistance to corrosion, water borne contaminants</p> <p>Annex Y.3.3 / Water-sulphur dioxide test</p> <p>Annex Y.4.3 / Tensile strength and elongation tests</p> <p>Annex Y.4.4 / Compression test</p> <p>Annex Y.4.5 / Oil resistance</p> <p>Annex Y.5 / Protection from moisture</p> <p>Annex Y.5.3 / Water spray test</p> <p>Annex Y.5.5 / Protection</p> | | | |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|-------------------------------------|--|---|------|---------------|
| | | from excessive dust Annex Y.6.2 / Impact test | | | |
| IEC 60335-2-15:2012/AMD2:2018 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-15:Particular requirements for appliances for heating liquids [Exception] 22.103 Durability test of appliance coupler of cordless appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-21:2012/AMD1:2018 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-21:Particular requirements for storage water heaters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-4:2008/AMD1:2012 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-4:Particular requirements for spin extractors | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-21:2021 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-21:Particular requirements for storage water heaters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-21:2021/A1:2021 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-21:Particular requirements for storage water heaters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-4:2021 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-4:Particular requirements for spin extractors | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-75: 2012/AMD2:2018 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-75:2012 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-75: 2012/AMD1:2015 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-1:2012 /A2:2019 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 1: General requirements [Exception] Clause 14 Transient overvoltage Clause 19.11.4 Abnormal operation Clause 22.32 Construction Clause 24 Components Annex F Capacitors Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation Annex T UV-C radiation effect on non-metallic materials | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|---|---|------|---------------|
| EN 60335-2-80:2003/A1:2004 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-80:Particular requirements for fans | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--|-------------------------------------|--|---|------|---------------|
| EN 60335-2-14:2006+A1:2008+A11:2012+A12:2016 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|---|--|------|---------------|
| KC 60335-2-32:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-32:Particular requirements for massage appliances | Input Voltage:less than AC 600 V Input Current:less than 20 A Leakage Current:less than 10 mA Earth Continuity Voltage:less than 8 V Earth Continuity Current:less than 45 A Electric strength Voltage:less than 10 kV Temperature:(- 40 ~ 850) °C Humidity:less than 98 % R.H. | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-65:2003/A11:2012 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-65:Particular requirements for air-cleaning appliances [Exception] Clause 32 - Radiation, toxicity and similar hazards | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|---|---|------|---------------|
| EN 60335-2-2:2010/A11:2012 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-2:Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception] 21.101 – Energized hose crushing resistance test 21.102 – Energized hose abrasion resistance test 21.103 – Current-carrying hose bending resistance test 21.104 – Current-carrying hose torsion resistance test 21.105 – Low-temperature condition resistance test for current-carrying hoses | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-4:2008 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-4:Particular requirements for spin extractors | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 to 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850)°C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|-------------------------------------|--|---|------|---------------|
| EN IEC 60335-2-14:2023/A11:2023 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-15:2016/A1:2021 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-15 : particular requirements for appliances for heating liquids [Exception] 22.103 Durability test of appliance coupler of cordless appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-15:2016/A2:2021 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-15 : particular requirements for appliances for heating liquids [Exception] 22.103 Durability test of appliance coupler of cordless appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|-------------------------------------|--|---|------|---------------|
| EN IEC 60335-2-2:2023 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception] 21.101 – Energized hose crushing resistance test 21.102 – Energized hose abrasion resistance test 21.103 – Currentcarrying hose bending resistance test 21.104 – Currentcarrying hose torsion resistance test 21.105 – Lowtemperature condition resistance test for current-carrying hosest | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|-------------------------------------|--|---|------|---------------|
| EN IEC 60335-2-2:2023/A11:2023 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception] 21.101 – Energized hose crushing resistance test 21.102 – Energized hose abrasion resistance test 21.103 – Currentcarrying hose bending resistance test 21.104 – Currentcarrying hose torsion resistance test 21.105 – Lowtemperature condition resistance test for current-carrying hosest | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-8:2015/A11:2022 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-8:2015/A12:2022 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|--|---|------|---------------|
| EN IEC 60335-2-14:2023 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-80: 2024 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|-------------------------------------|--|---|------|---------------|
| EN IEC 60335-2-14:2023/A1:2023 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

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No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|---|---|------|---------------|
| EN 60335-2-65:2003/A12:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances [Exception] Clause 32 - Radiation, toxicity and similar hazards | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|---|---|------|---------------|
| EN 60335-2-65:2003/A2:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances [Exception] Clause 32 - Radiation, toxicity and similar hazards | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|--|------|---------------|
| EN IEC 60335-2-75:2023 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

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No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|-------------------------------------|---|--|------|---------------|
| EN IEC 60335-2-75:2023/A1:2023 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|-------------------------------------|---|---|------|---------------|
| EN IEC 60335-2-75:2023/A11:2023 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

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No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|-------------------------------------|---|---|------|---------------|
| EN IEC 60335-2-75:2023/A2:2023 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|---|------|---------------|
| EN IEC 60335-2-80:2024 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-80 : particular requirements for fans | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|-------------------------------------|---|---|------|---------------|
| EN IEC 60335-2-80:2024/A11:2024 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-80 : particular requirements for fans | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-58:2005/A1:2008 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-58:Particular requirements for commercial electric dishwashing machines [Exception] Annex BB Ageing test for elastomeric parts Annex CC Requirements to avoid backsiphonag | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-58:2005/A11:2010 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-58:Particular requirements for commercial electric dishwashing machines [Exception] Annex BB Ageing test for elastomeric parts Annex CC Requirements to avoid backsiphonag | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-58:2005/A2:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-58:Particular requirements for commercial electric dishwashing machines [Exception] Annex BB Ageing test for elastomeric parts Annex CC Requirements to avoid backsiphonag | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-58:2005/A12:2016 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-58:Particular requirements for commercial electric dishwashing machines [Exception] Annex BB Ageing test for elastomeric parts Annex CC Requirements to avoid backsiphonag | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|-------------------------------------|--|---|------|---------------|
| EN IEC 60335-2-11:2022/A11:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-11:Particular requirements for tumble dryers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-65: 2023 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances [Exception] Clause 32 - Radiation, toxicity and similar hazards | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

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No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-15:2016/A12:2021 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-15 : particular requirements for appliances for heating liquids [Exception] 22.103 Durability test of appliance coupler of cordless appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-15:2016/A11:2018 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-15 : particular requirements for appliances for heating liquids [Exception] 22.103 Durability test of appliance coupler of cordless appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

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No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-32: 2024 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-32: Particular requirements for massage appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-14:2025 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------|-------------------------------------|--|--|------|---------------|
| EN 60335-1:2012 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 1: General requirements [Exception] Clause 14 Transient overvoltage Clause 19.11.4 Abnormal operation Clause 22.32 Construction Clause 24 Components Annex F Capacitors Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation Annex T UV-C radiation effect on non-metallic materials | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-11:2024 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-11: Particular requirements for tumble dryers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|-------------------------------------|---|---|------|---------------|
| EN IEC 60335-2-4:2023/A11:2023 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-4 : particular requirements for spin extractors | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|-------------------------------------|---|---|------|---------------|
| EN IEC 60335-2-4:2023 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-4 : particular requirements for spin extractors | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-2:2019 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances [Exception] 21.101 – Energized hose crushing resistance test 21.102 – Energized hose abrasion resistance test 21.103 – Currentcarrying hose bending resistance test 21.104 – Currentcarrying hose torsion resistance test 21.105 – Lowtemperature condition resistance test for current-carrying hosest | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-1:2020 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 1: General requirements [Exception] Clause 14 Transient overvoltage Clause 19.11.4 Abnormal operation Clause 22.32 Construction Clause 24 Components Clause 32.2 Radiation, toxicity and similar hazards Annex F Capacitors Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation Annex T UV-C radiation effect on non-metallic materials Annex U Evaluation for remote communication through public networks | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------|-------------------------------------|---|---|------|---------------|
| EN IEC 60335-1:2023 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 1 : general requirements [Exception] Clause 14 Transient overvoltage Clause 19.11.4 Abnormal operation Clause 22.32 Construction Clause 24 Components Clause 32.2 Radiation, toxicity and similar hazards Annex F Capacitors Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation Annex T UV-C radiation effect on non-metallic materials Annex U Evaluation for remote communication through public networks | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|-------------------------------------|---|---|------|---------------|
| EN IEC 60335-1:2023/A11:2023 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 1 : general requirements [Exception] Clause 14 Transient overvoltage Clause 19.11.4 Abnormal operation Clause 22.32 Construction Clause 24 Components Clause 32.2 Radiation, toxicity and similar hazards Annex F Capacitors Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation Annex T UV-C radiation effect on non-metallic materials Annex U Evaluation for remote communication through public networks | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-75: 2024 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-4:2023 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-31:2012/AMD1:2016 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-39: 2021 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-39: 2012/AMD1:2017 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-39: 2012 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|-------------------------------------|---|--|------|---------------|
| EN IEC 60335-2-37:2024/A11:2024 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-37: Particular requirements for commercial electric doughnut fryers and deep fat fryers | <p>Single-phase input voltage: Less than AC 600 V</p> <p>Single-phase input current: Less than 20 A</p> <p>Frequency range: (50 ~ 60) Hz</p> <p>Withstand voltage range: (0 ~ 10) kV</p> <p>Leakage current range: (0 ~ 10) mA</p> <p>Ground continuity voltage: Less than AC/DC 12 V</p> <p>Ground continuity current: Less than AC/DC 45 A</p> <p>Temperature:(-40 ~ 850) °C</p> <p>Relative humidity: Less than 98 % R.H.</p> <p>Insulation resistance reference voltage: Less than DC 1 000 V</p> <p>Insulation resistance measurement range: 4 000 MΩ</p> | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|---|------|---------------|
| EN IEC 60335-2-37:2024 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-37: 2021/AMD1:2025 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-37:2021 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-37:2017 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-37: 2002 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------------|-------------------------------------|---|---|------|---------------|
| EN 60335-2-35:2016+A1:2019+A2:2021 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-35: 2012/AMD2:2020 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-35: 2012/AMD1:2016 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-35:2012 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-31:2024 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|---|---|------|---------------|
| EN 60335-2-31:2014/A2:2023 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|---|--|------|---------------|
| EN 60335-2-31:2014/A11:2023 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|---|---|------|---------------|
| EN 60335-2-31:2014/A1:2023 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|---|---|------|---------------|
| EN 60335-2-31:2014 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-39: 2021/AMD1:2025 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|--|---|------|---------------|
| EN IEC 60335-2-39:2024 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-47: 2021/AMD1:2025 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-47:2021 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|-------------------------------------|--|--|------|---------------|
| EN 60335-2-47:2003+A1:2008+A11:2012+A2:2019 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|--|--|------|---------------|
| EN 60335-2-47:2003/A12:2024 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-47: 2002/AMD2:2017 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-47: 2002/AMD1:2008 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-47: 2002 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-44: 2021/AMD1:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-44: 2021 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------------|-------------------------------------|---|---|------|---------------|
| EN 60335-2-44:2002+A1:2008+A2:2012 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers | <p>Single-phase input voltage: Less than AC 600 V</p> <p>Single-phase input current: Less than 20 A</p> <p>Frequency range: (50 ~ 60) Hz</p> <p>Withstand voltage range: (0 ~ 10) kV</p> <p>Leakage current range: (0 ~ 10) mA</p> <p>Ground continuity voltage: Less than AC/DC 12 V</p> <p>Ground continuity current: Less than AC/DC 45 A</p> <p>Temperature: (-40 ~ 850) °C</p> <p>Relative humidity: Less than 98 % R.H.</p> <p>Insulation resistance reference voltage: Less than DC 1 000 V</p> <p>Insulation resistance measurement range: 4 000 MΩ</p> | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-44: 2002/AMD2:2011 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-44: 2002/AMD1:2008 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers | <p>Single-phase input voltage: Less than AC 600 V</p> <p>Single-phase input current: Less than 20 A</p> <p>Frequency range: (50 ~ 60) Hz</p> <p>Withstand voltage range: (0 ~ 10) kV</p> <p>Leakage current range: (0 ~ 10) mA</p> <p>Ground continuity voltage: Less than AC/DC 12 V</p> <p>Ground continuity current: Less than AC/DC 45 A</p> <p>Temperature:(-40 ~ 850) °C</p> <p>Relative humidity: Less than 98 % R.H.</p> <p>Insulation resistance reference voltage: Less than DC 1 000 V</p> <p>Insulation resistance measurement range: 4 000 MΩ</p> | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-44: 2002 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-43: 2024 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|-------------------------------------|--|---|------|---------------|
| EN IEC 60335-2-43:2020+A11:2020 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-43:2017 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-43: Particular requirements for clothes dryers and towel rails | <p>Single-phase input voltage: Less than AC 600 V</p> <p>Single-phase input current: Less than 20 A</p> <p>Frequency range: (50 ~ 60) Hz</p> <p>Withstand voltage range: (0 ~ 10) kV</p> <p>Leakage current range: (0 ~ 10) mA</p> <p>Ground continuity voltage: Less than AC/DC 12 V</p> <p>Ground continuity current: Less than AC/DC 45 A</p> <p>Temperature:(-40 ~ 850) °C</p> <p>Relative humidity: Less than 98 % R.H.</p> <p>Insulation resistance reference voltage: Less than DC 1 000 V</p> <p>Insulation resistance measurement range: 4 000 MΩ</p> | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|-------------------------------------|--|--|------|---------------|
| EN IEC 60335-2-39:2024/A11:2024 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|-------------------------------------|--|---|------|---------------|
| EN IEC 60335-2-39:2024/A1:2024 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-31:2012/AMD2:2018 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-50: 2002 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-2-29: 2016 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|--|---|------|---------------|
| IEC 60335-2-29: 2016/AMD1:2019 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|--|---|------|---------------|
| EN 60335-2-29:2021/A11:2024 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|--|--|------|---------------|
| EN 60335-2-29:2021+A1:2021 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-3:2002 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-3:2002/AMD1:2004 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-3:2002/AMD2:2008 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-3:2012 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-3:2012/AMD1:2015 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------|-------------------------------------|---|---|------|---------------|
| EN 60335-2-3:2016+A1:2020 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-3:2022 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-31:2012 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-31: Particular requirements for range hoods and other cooking fume extractors | <p>Single-phase input voltage: Less than AC 600 V</p> <p>Single-phase input current: Less than 20 A</p> <p>Frequency range: (50 ~ 60) Hz</p> <p>Withstand voltage range: (0 ~ 10) kV</p> <p>Leakage current range: (0 ~ 10) mA</p> <p>Ground continuity voltage: Less than AC/DC 12 V</p> <p>Ground continuity current: Less than AC/DC 45 A</p> <p>Temperature:(-40 ~ 850) °C</p> <p>Relative humidity: Less than 98 % R.H.</p> <p>Insulation resistance reference voltage: Less than DC 1 000 V</p> <p>Insulation resistance measurement range: 4 000 MΩ</p> | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|--|--|------|---------------|
| IEC 60335-1:2020/AMD1:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 1: General requirements [Exception] Clause 14 Transient overvoltage Clause 19.11.4 Abnormal operation Clause 22.32 Construction Clause 24 Components Clause 32.2 Radiation, toxicity and similar hazards Annex F Capacitors Annex H Switches Annex J Coated printed circuit boards Annex R Software evaluation Annex T UV-C radiation effect on non-metallic materials Annex U Evaluation for remote communication through public networks | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-13:2021/AMD1:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|-------------------------------------|---|--|------|---------------|
| IEC 60335-2-3:2022/AMD1:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature: (-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-48: 2021/AMD1:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-50: 2021/AMD1:2025 | Electrical machinery for households | 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 Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60335-2-85: 2022/AMD1:2025 | Electrical machinery for households | Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|---|------|---------------|
| KC 60335-2-29:2 026 | Electrical machinery for households | 가정용 및 이와 유사한 전기기기의 안전성 제2-29부: 배터리 충전기의 개별 요구사항 [제외항목] 21.101 - 추가 시험 21.102 - 추가 시험 | Single-phase input voltage: Less than AC 600 V Single-phase input current: Less than 20 A Frequency range: (50 ~ 60) Hz Withstand voltage range: (0 ~ 10) kV Leakage current range: (0 ~ 10) mA Ground continuity voltage: Less than AC/DC 12 V Ground continuity current: Less than AC/DC 45 A Temperature:(-40 ~ 850) °C Relative humidity: Less than 98 % R.H. Insulation resistance reference voltage: Less than DC 1 000 V Insulation resistance measurement range: 4 000 MΩ | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

03. Electrical Testing

03.008 Wired/wireless communication devices

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------------|--------------------------------------|---|--|------|---------------|
| RSS-251:2018 | Wired/wireless communication devices | Vehicular Radar and Airport Fixed or Mobile Radar in the 76-81 GHz Frequency Band | 9 kHz - 325 GHz | BS | N |
| RSS-216 Issue 3:2024 | Wired/wireless communication devices | Wireless Power Transfer Devices | 9 kHz ~ 200 GHz | BS | N |
| ONGO-TS-9001 V1.3.0 | Wired/wireless communication devices | OnGo Release 1 Certification Test Plan | 3550 MHz ~ 3700 MHz | BS | N |
| RRA Notice No.20 22-16(09.05.2022.) | Wired/wireless communication devices | Technical Requirements for Telecommunications Terminal Equipment | Input impedance:600 Ω Frequency range:100 Hz ~ 10 MHz | BS | N |
| ETSI ES 203 021-3 V2.1.2:2006 | Wired/wireless communication devices | Part 3:Basic Interworking with the Public Telephone Networks | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--|--------------------------------------|---|--|------|---------------|
| ACMA Radiocommunications: 2021 | Wired/wireless communication devices | AUSTRALIA Radiocommunications Equipment (General) Rules 2021 | 30 MHz ~ 6 GHz | BS | N |
| ETSI EN 302 567 V2.2.1:2021 | Wired/wireless communication devices | Multiple-Gigabit/s radio equipment operating in the 60 GHz band | 30 MHz ~ 142 GHz | BS | N |
| FCC Part 22:2018 | Wired/wireless communication devices | Public mobile services | 9 kHz ~ 26.5 GHz | BS | N |
| FCC Part 20.19:2006 | Wired/wireless communication devices | Hearing aid – compatible mobile handsets [exception] (g) Enforcement | H Field:10 mA/m ~ 2 A/m E Field:2 V/m ~ 1 000 V/m | BS | N |
| FCC Part 2.1093:2018 | Wired/wireless communication devices | Radio frequency radiation exposure evaluation; portable devices | 3 kHz ~ 40 GHz | BS | N |
| MSIT Notification No.2019-4(01.16.2019.) | Wired/wireless communication devices | Technical Requirements for the Human Protection against Electromagnetic Waves | 30 MHz ~ 6 GHz | BS | N |
| ETSI TS 151 021 V17.0.0:2022 | Wired/wireless communication devices | 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) [Exception] 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|--------------------------------------|---|------------------|------|---------------|
| FCC Part 24:2018 | Wired/wireless communication devices | Personal communications services | 9 kHz ~ 26.5 GHz | BS | N |
| ETSI EN 301 908-24 V15.1.1:2023 | Wired/wireless communication devices | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 24: New Radio (NR) Base Stations (BS) Release 15 | 9 kHz ~ 60 GHz | BS | N |
| RSS-133 Issue 7:2024 | Wired/wireless communication devices | Personal Communications Service Equipment Operating in the Bands 1850-1915 MHz and 1930-1995 MHz | 9 kHz ~ 26.5 GHz | BS | N |
| RSS-210 Issue 11:2024 | Wired/wireless communication devices | Licence-Exempt Radio Apparatus: Category I Equipment | 9 kHz ~ 325 GHz | BS | N |
| CTIA 01.20 v6.0.2:2024 | Wired/wireless communication devices | Test Methodology, SISO, Anechoic Chamber | 600 MHz ~ 6 GHz | SF-3 | N |
| ETSI EN 302 065-4 V1.1.1:2016 | Wired/wireless communication devices | 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 | BS | N |
| RSS-220:2018 | Wired/wireless communication devices | Devices Using Ultra-Wideband (UWB) Technology | 9 kHz - 200 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|--------------------------------------|---|---------------------|------|---------------|
| FCC Part 30:2019 | Wired/wireless communication devices | UPPER MICROWAVE FLEXIBLE USE SERVICE | 9 kHz - 325 GHz | BS | N |
| FCC Part 25:2019 | Wired/wireless communication devices | SATELLITE COMMUNICATIONS | 9 kHz - 100 GHz | BS | N |
| ETSI TS 145 005 V17.0.0:2022 | Wired/wireless communication devices | Digital cellular telecommunications system (Phase 2+) (GSM); GSM/EDGE Radio transmission and reception (3GPP TS 45.005 version 17.0.0 Release 17) [Exception] Clauses 4.1.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 5, 6 | 100 kHz ~ 12.75 GHz | BS | N |
| EN 50566:2017+ A1:2023 | Wired/wireless communication devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|--------------------------------------|--|--|------|---------------|
| EN 50360:2017+ A1:2023 | Wired/wireless communication devices | 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 | BS | N |
| ETSI ES 203 038 V1.2.1:2013 | Wired/wireless communication devices | 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: below 100 dB Frequency Range: 100 Hz ~ 8 kHz Output Impedance: 4 Ω Output level: below 10 W Input Impedance: 1 kΩ | BS | N |
| ETSI EN 303 609 V12.5.1:2016 | Wired/wireless communication devices | 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 | BS | N |

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No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------------------------|---|--------------------|------|---------------|
| ETSI EN 302 065-2 V2.1.1:2016 | Wired/wireless communication devices | 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 2:Requirements for UWB location tracking | 30 MHz ~ 40 GHz | BS | N |
| ETSI EN 302 208-1 V1.4.1:2011 | Wired/wireless communication devices | 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 | BS | N |
| RSS-192 Issue 5:2023 | Wired/wireless communication devices | Flexible Use Broadband Equipment Operating in the Band 3450-3900 MHz | 9 kHz ~ 40 GHz | BS | N |
| RSS-140 Issue 1:2018 | Wired/wireless communication devices | Equipment Operating in the Public Safety Broadband Frequency Bands 758-768 MHz and 788-798 MHz | 9 kHz ~ 8 GHz | BS | N |
| RSS-170 Issue 4:2022 | Wired/wireless communication devices | Mobile Earth Stations and Ancillary Terrestrial Component Equipment Operating in the Mobile-Satellite Service Bands | 9 kHz ~ 26.5 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|--------------------------------------|---|------------------|------|---------------|
| RSS-195 Issue 3:2026 | Wired/wireless communication devices | Wireless Communication Service (WCS) Equipment Operating in the Bands 2305-2320 MHz and 2345-2360 MHz | 9 kHz ~ 26.5 GHz | BS | N |
| EN 62209-2:2010 /A1:2019 | Wired/wireless communication devices | 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 | BS | N |
| EN IEC/IEEE 62209-1528:2021 | Wired/wireless communication devices | 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 | BS | N |
| RSS-222 Issue 4:2024 | Wired/wireless communication devices | White Space Devices (WSDs) | 9 kHz - 7 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------------------------|---|-----------------|------|---------------|
| RSS-252 Issue 3:2025 | Wired/wireless communication devices | Intelligent Transportation Systems' (ITS) On-Board Units (OBUs) in the 5895-5925 MHz Band | 9 kHz ~ 40 GHz | BS | N |
| RSS-248 Issue 3:2024 | Wired/wireless communication devices | Radio Local Area Network (RLAN) Devices Operating in the 5925-7125 MHz Band | 9 kHz ~ 40 GHz | BS | N |
| CWG Test Plan v6.0.1:2024 | Wired/wireless communication devices | Test Plan for RF Performance Evaluation of Wi-Fi Mobile Converged Devices [Exception] 802.11ax | 600 MHz ~ 6 GHz | SF-3 | N |
| ETSI EN 301 893 V2.2.1:2024 | Wired/wireless communication devices | 5 GHz WAS/RLAN; Harmonised Standard for access to radio spectrum | 30 MHz ~ 26 GHz | BS | N |
| RSS-198 Issue 1:2023 | Wired/wireless communication devices | Flexible Use Broadband Equipment Operating in the Band 3900-3980 MHz | 9 kHz ~ 40 GHz | BS | N |
| ANSI/TIA-603-D: 2010 | Wired/wireless communication devices | Land Mobile FM or PM – Communications Equipment – Measurement and Performance Standards | 9 kHz ~ 40 GHz | BS | N |
| ETSI EN 300 220-1 V3.1.1:2017 | Wired/wireless communication devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------------------------|---|-----------------|------|---------------|
| ETSI EN 300 220-2 V2.3.1:2010 | Wired/wireless communication devices | 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 | BS | N |
| FCC Part 101:2019 | Wired/wireless communication devices | FIXED MICROWAVE SERVICES | 9 kHz - 325 GHz | BS | N |
| IEEE Std1528:2013 | Wired/wireless communication devices | IEEE Recommended Practice for Determining the Peak Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques | 100 MHz ~ 6 GHz | BS | N |
| ETSI EN 302 065-1 V2.1.1:2016 | Wired/wireless communication devices | 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 1: Requirements for Generic UWB applications | 30 MHz ~ 40 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--|--------------------------------------|---|---|------|---------------|
| ETSI EN 301 908-1 V7.1.1:2015 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 301 908-14 V15.1.1:2021 | Wired/wireless communication devices | 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 | BS | N |
| FCC Part 2.1049:2018 | Wired/wireless communication devices | Measurements required:Occupied bandwidth | 9 kHz ~ 40 GHz | BS | N |
| CS-03, Part VIII Issue 9, Amendment 6:2022 | Wired/wireless communication devices | Part VIII:Requirements and Test Methods for Digital Subscriber Line (xDSL) Terminal Equipment | Frequency range:200 Hz ~ 30 MHz Balun Termination impedance:100 Ω, 600 Ω | BS | N |
| CTIA HAC Test Plan:2003 | Wired/wireless communication devices | Test Plan for Hearing Aid Compatibility | H Field:10 mA/m ~ 2 A/m E Field:2 V/m ~ 1 000 V/m | BS | N |
| FCC Part 15:2018 subpart E | Wired/wireless communication devices | Unlicensed National Information Infrastructure Devices | 9 kHz ~ 40 GHz | BS | N |
| FCC Part 15:2018 subpart C | Wired/wireless communication devices | Intentional Radiators | 9 kHz ~ 243 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|--------------------------------------|--|--------------------|------|---------------|
| ANSI C63.4:2009 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 301 908-1 V11.1.1:2016 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 300 330-1 V1.8.1:2015 | Wired/wireless communication devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------------------------|--|-------------------|------|---------------|
| ETSI EN 300 330-2 V1.5.1:2010 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 300 330-2 V1.6.1:2015 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 301 908-3 V6.2.1:2013 | Wired/wireless communication devices | IMT cellular networks; Harmonized EN covering the essential requirements of article 3.2 of the R&TTE Directive; Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS) | 9 kHz ~ 26.5 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------------|--------------------------------------|--|---------------------|------|---------------|
| ETSI TS 136 141 V15.21.0 (2025-01) | Wired/wireless communication devices | LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) conformance testing (3GPP TS 36.141 version 15.21.0 Release 15) [Exception] Clauses 6.3, 6.3.2, 6.4, 6.5, 7.3, 7.4, 8 | 9 kHz ~ 26.5 GHz | BS | N |
| ETSI EN 301 502 V10.2.1:2012 | Wired/wireless communication devices | 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 | BS | N |
| EN 50566:2017 | Wired/wireless communication devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|--------------------------------------|--|--|------|---------------|
| ETSI EN 301 908-22 V6.1.1:2016 | Wired/wireless communication devices | 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 | BS | N |
| EN 50360:2001 +A1:2012 | Wired/wireless communication devices | Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields | 100 MHz ~ 6 GHz | BS | N |
| PTC 200:2019 | Wired/wireless communication devices | Requirements for Connection of Customer Equipment to Analogue Lines | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--|--------------------------------------|--|--|------|---------------|
| ETSI EN 301 893 V2.1.1:2017 | Wired/wireless communication devices | 5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU | 30 MHz ~ 26 GHz | BS | N |
| CS-03 Part I Issue 9, Amendment 5:2016 | Wired/wireless communication devices | Part I: Requirements for Terminal Equipment (TE) and Related Access Arrangements Intended for Direct Connection to Analogue Wireline Facilities | Input impedance: 600 Ω Frequency range: 100 Hz ~ 30 MHz | BS | N |
| ETSI TBR4 A1:1997 | Wired/wireless communication devices | Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN primary rate access | Input impedance: 120 Ω Load impedance: 120 Ω Frequency range: (51 ~ 3072) Hz | BS | N |
| ETSI EN 302 208-2 V1.4.1:2011 | Wired/wireless communication devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|--------------------------------------|---|-----------------|------|---------------|
| EN 62209-2:2010 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 302 288 V2.1.1:2017 | Wired/wireless communication devices | 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 | BS | N |
| AS/NZS 2772.2:2016 | Wired/wireless communication devices | SPECIFIC ABSORPTION RATE (SAR) ESTIMATION FOR CELLULAR PHONE | 100 MHz ~ 6 GHz | BS | N |
| IEC PAS 63083:2017 | Wired/wireless communication devices | Specific absorption rate (SAR) measurement procedure for long term evolution (LTE) devices | 100 MHz ~ 6 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--|--------------------------------------|--|---|------|---------------|
| ISO 11904-2:2021 | Wired/wireless communication devices | Acoustics – Determination of sound immission from sound sources placed close to ear – Part 2:Technique using a manikin | Frequency range:100 Hz ~ 20 kHz Output voltage:(20 ~ 200) mV | BS | N |
| 3GPP TS 51 010-1 V13.12.0 Section 12.2 | Wired/wireless communication devices | 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 1: Conformance specification (Release 13) | 30 MHz ~ 4 GHz | BS | N |
| 1999/519/EC | Wired/wireless communication devices | 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 | BS | N |
| RRA Notification No.2023-12(06.30.2023.) | Wired/wireless communication devices | Conformity Assessment Procedure for Electromagnetic Field Strength and Specific Absorption Rate (SAR) | 30 MHz ~ 6 GHz | BS | N |
| CS-03 Part II Issue 9 Amendment 1:2012 | Wired/wireless communication devices | Part II:Requirements for Terminal Equipment Intended for Connection to 1.544 Mbps (DS-1) Digital Interfaces | Digital signal source:1.544 Mbps (DS-1) Termination impedance:100 Ω | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------------------------|---|--------------------|------|---------------|
| ETSI EN 301 406 V2.2.2:2016 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 301 091-1 V2.1.1 2017 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 303 687 V1.1.1:2023 | Wired/wireless communication devices | 6 GHz WAS/RLAN; Harmonised Standard for access to radio spectrum | 30 MHz ~ 26 GHz | BS | N |
| FCC Part 20.21:2019 | Wired/wireless communication devices | Signal Boosters | 9 kHz - 40 GHz | BS | N |
| FCC Part 27:2018 | Wired/wireless communication devices | Miscellaneous Wireless Communications Services | 9 kHz ~ 26.5 GHz | BS | N |
| FCC Part 2.1091:2018 | Wired/wireless communication devices | Radio frequency radiation exposure evaluation; mobile devices | 10 MHz ~ 40 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------------------------|--|-----------------|------|---------------|
| ETSI EN 300 220-1 V2.4.1:2012 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 302 291-2 V1.1.1:2005 | Wired/wireless communication devices | 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 | BS | N |
| EN 50663:2017 | Wired/wireless communication devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|--------------------------------------|---|------------------|------|---------------|
| IEC 62209-2 Ed.1.0b:2010 | Wired/wireless communication devices | 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 | BS | N |
| EN 50385:2017 | Wired/wireless communication devices | 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 | BS | N |
| FCC Part 90:2018 | Wired/wireless communication devices | Private Land Mobile Radio Services | 9 kHz ~ 26.5 GHz | BS | N |
| RSS-102 Issue 5:2015 | Wired/wireless communication devices | Radio Frequency Exposure Compliance of Radio communications Apparatus (All Frequency Bands) | 100 MHz ~ 40 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--|--------------------------------------|--|--------------------|------|---------------|
| ETSI EN 300 328 V2.1.1:2016 | Wired/wireless communication devices | 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 | BS | N |
| 3GPP TS 51 010-1 V13.13.0 Section 12.2 | Wired/wireless communication devices | 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 1: Conformance specification (Release 13) | 30 MHz ~ 4 GHz | BS | N |
| ETSI EN 301 908-20 V6.2.1:2013 | Wired/wireless communication devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|--------------------------------------|---|--|------|---------------|
| ETSI EN 301 908-20 V6.3.1:2016 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 301 908-22 V5.2.1:2011 | Wired/wireless communication devices | 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 | BS | N |
| ETSI ES 203 021-1 V2.1.1:2005 | Wired/wireless communication devices | Access and Terminals (AT); Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks; Update of the technical contents of TBR 021, EN 301 437, TBR 015, TBR 017; Part 1: General aspects | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------------------------|--|---------------------|------|---------------|
| ETSI EN 300 440-2 V1.4.1:2010 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 301 502 V12.5.2:2017 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 301 511 V12.5.1:2017 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 303 345-1 V1.1.1:2019 | Wired/wireless communication devices | Broadcast Sound Receivers; Part 1:Generic requirements and measuring methods | 148.5 kHz ~ 240 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|--------------------------------------|---|--|------|---------------|
| ETSI EN 300 330-1 V1.7.1:2010 | Wired/wireless communication devices | 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 | BS | N |
| EN 50566:2013 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 301 908-15 V5.2.1:2011 | Wired/wireless communication devices | 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 | BS | N |
| PTC 220:2019 | Wired/wireless communication devices | Requirements for Private Voice Networks connected to the PSTN/ISDN | SPL: below 100 dB Frequency Range: 100 Hz ~ 8 kHz Output Impedance: 4 Ω Output level: below 10 W Input Impedance: 1 kΩ | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|--------------------------------------|---|-------------------|------|---------------|
| ACMA Radio communications 2003 | Wired/wireless communication devices | AUSTRALIA Radio communications(Electromagnetic Radiation – Human Exposure) Standard 2003 | 30 MHz ~ 6 GHz | BS | N |
| ACMA Radio communications 2014 | Wired/wireless communication devices | AUSTRALIA Radio communications(Electromagnetic Radiation – Human Exposure) Standard 2014 | 30 MHz ~ 6 GHz | BS | N |
| ETSI EN 301 908-11 V11.1.2:2017 | Wired/wireless communication devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|--------------------------------------|---|---|------|---------------|
| ICASA TE – 001:2006 | Wired/wireless communication devices | Standard Specification for TLTE for Connection to the Public Switched Telephone Network | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |
| ETSI EN 303 417 V1.1.1:2017 | Wired/wireless communication devices | 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 | BS | N |
| ANSI C63.26:2015 | Wired/wireless communication devices | American National Standard for Compliance Testing of Transmitters Use in Licensed Radio Services | 9 kHz - 325 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|--------------------------------------|--|-----------------|------|---------------|
| ETSI EN 300 440 V2.1.1:2017 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 300 440-1 V1.6.1:2010 | Wired/wireless communication devices | 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 | BS | N |
| ARPANSA Radiation Protection Standard: 2021 | Wired/wireless communication devices | Standard for Limiting Exposure to Radiofrequency Fields – 100 kHz to 300 GHz | 3 kHz ~ 40 GHz | BS | N |
| EN 50360:2017 | Wired/wireless communication devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|--------------------------------------|--|----------------------------------|------|---------------|
| AS/NZS 2772.2:2016 Amd 1:2018 | Wired/wireless communication devices | Principles and methods of measurement and computation - 3 kHz to 300 GHz | 100 MHz ~ 6 GHz | BS | N |
| ETSI EN 303 345-4 V1.1.1:2021 | Wired/wireless communication devices | Broadcast Sound Receivers; Part 4:DAB broadcast sound service; Harmonised Standard for access to radio spectrum | 174 ~ 240 MHz | BS | N |
| 3GPP TS 25.144 V11.2:2012 | Wired/wireless communication devices | 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 | SF-3 | N |
| ETSI EN 303 340 V1.2.1:2020 | Wired/wireless communication devices | Digital Terrestrial TV Broadcast Receivers; Harmonised Standard for access to radio spectrum | (174 ~ 240) MHz, (470 ~ 854) MHz | BS | N |
| ETSI EN 303 345-3 V1.1.1:2021 | Wired/wireless communication devices | Broadcast Sound Receivers; Part 3:FM broadcast sound service; Harmonised Standard for access to radio spectrum | 87.5 ~ 108 MHz | BS | N |
| ETSI EN 301 908-3 V11.1.3:2017 | Wired/wireless communication devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|--------------------------------------|--|------------------|------|---------------|
| ETSI EN 302 502 V2.1.1:2017 | Wired/wireless communication devices | 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 | BS | N |
| 3GPP TS 34.114 V12.2:2016 | Wired/wireless communication devices | 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 | SF-3 | N |
| 3GPP TS 37.544 V16.3:2024 | Wired/wireless communication devices | 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 | SF-3 | N |
| FCC Part 2.1046:2018 | Wired/wireless communication devices | Measurements required:RF power output | 9 kHz ~ 40 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|--------------------------------------|---|------------------|------|---------------|
| EN 62232:2017 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 303 396 V1.1.1:2016 | Wired/wireless communication devices | Short Range Devices; Measurement Techniques for Automotive and Surveillance Radar Equipment | 30 MHz ~ 162 GHz | BS | N |
| ETSI EN 302 264 V2.1.1 2017 | Wired/wireless communication devices | 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 | BS | N |
| FCC Part 2.1051:2018 | Wired/wireless communication devices | Measurements required: Spurious emissions at antenna terminals | 9 kHz ~ 40 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--|--------------------------------------|--|---|------|---------------|
| CS-03 Part V Issue 9 Amendment 3:2021 | Wired/wireless communication devices | Requirements and Test Methods for Magnetic Output from Handset Telephones for Hearing Aid Coupling and for Receive Volume Control | Frequency range:(200 ~ 4 000) Hz DC resistance:900 Ω Inductance:150 mH Sensitivity:-60 dBV/(A/m) | BS | N |
| ETSI EN 302 502 V1.2.1:2008 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 302 208 V3.3.1:2020 | Wired/wireless communication devices | 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 | BS | N |
| EN 62311:2020 | Wired/wireless communication devices | Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz) | 0 Hz ~ 40 GHz | BS | N |
| RSS-132 Issue 4:2023 | Wired/wireless communication devices | Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz | 9 kHz ~ 26.5 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|--------------------------------------|---|-----------------------|------|---------------|
| ETSI EN 301 908-1 V15.2.1:2023 | Wired/wireless communication devices | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements; Release 15 | RSE : 30 MHz ~ 26 GHz | BS | N |
| ETSI EN 300 220-1 V2.3.1:2010 | Wired/wireless communication devices | 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 | BS | N |
| ANSI/TIA-5050:2018 | Wired/wireless communication devices | Telecommunications Communications Products Receive Volume Control Requirements for Wireless (Mobile) Devices | 100 Hz ~ 8 kHz | BS | N |
| ETSI EN 303 345-2 V1.2.1:2021 | Wired/wireless communication devices | Broadcast Sound Receivers; Part 2: AM broadcast sound service; Harmonised Standard for access to radio spectrum | 148.5 kHz ~ 26.1 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|--------------------------------------|---|---|------|---------------|
| ETSI EN 305 550-2 V1.2.1:2014 | Wired/wireless communication devices | 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 | BS | N |
| TIA-968-B-3:2016 | Wired/wireless communication devices | Telecommunications Telephone Terminal Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network-Addendum 3 | Input impedance:600 Ω Frequency range:100 Hz ~ 10 MHz | BS | N |
| RSS-247 Issue 4:2025 | Wired/wireless communication devices | Digital Transmission Systems, Frequency Hopping Systems and Licence-Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands | 9 kHz ~ 40 GHz | BS | N |
| RSS-119 Issue 12 Amendment 2:2025 | Wired/wireless communication devices | Land Mobile and Fixed Equipment Operating in the Frequency Range 27.41-960 MHz | 9 kHz ~ 10 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------------|--------------------------------------|--|--|------|---------------|
| ETSI TS 138 141-2 V16.21.0 (2025-07) | Wired/wireless communication devices | 5G; NR; Base Station (BS) conformance testing Part 2: Radiated conformance testing (3GPP TS 38.141-2 version 16.21.0 Release 16) [Exception] Clauses 6.4, 6.5, 6.6, 6.7.2, 7.4, 7.9, 8 | 30 MHz ~ 60 GHz | BS | N |
| AS/ACIF S031:2001 | Wired/wireless communication devices | Requirements for ISDN Basic Access Interface | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|--------------------------------------|---|--|------|---------------|
| AS/ACIF S038:2001 | Wired/wireless communication devices | Requirements for ISDN Primary Rate Access Interface | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------|--------------------------------------|--|--|------|---------------|
| AS/CA S002:2010 | Wired/wireless communication devices | Analogue interworking and non-interference requirements for Customer Equipment for connection to the Public Switched Telephone Network | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|--------------------------------------|---|--|------|---------------|
| AS/CA S003.1:2010 | Wired/wireless communication devices | Requirements for Customer Access Equipment for connection to a Telecommunications Network — Part 1: General | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |
| AS/CA S004:2013 | Wired/wireless communication devices | Voice performance requirements for Customer Equipment | SPL:below 100 dB Frequency Range:100 Hz ~ 8 kHz Output Impedance:4 Ω Output level:below 10 W Input Impedance:1 kΩ | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|--------------------------------------|---|--|------|---------------|
| AS/CA S041.1:2015 | Wired/wireless communication devices | Requirements for DSL Customer Equipment for connection to the Public Switched Telephone Network — Part 1: General | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------------|--------------------------------------|---|--|------|---------------|
| AS/CA S043.1:2015 | Wired/wireless communication devices | Requirements for Customer Equipment for connection to a metallic local loop interface of a Telecommunications Network — Part 1: General | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |
| ETSI EN 301 908-18 V17.1.1:2025 | Wired/wireless communication devices | IMT cellular networks;Harmonised Standard for access to radio spectrum; Part 18: NR, E-UTRA, UTRA and GSM/EDGE Multi-Standard Radio (MSR) Base Station (BS) Release 17 | 9 kHz ~ 26.5 GHz | BS | N |
| ETSI EN 301 908-3 V15.1.1:2024 | Wired/wireless communication devices | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 3: CDMA Direct Spread (UTRA FDD) Base Stations (BS) Release 15 | 9 kHz ~ 26.5 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------------|--------------------------------------|---|---|------|---------------|
| ETSI TS 137 145-2 V16.20.0 (2025-07) | Wired/wireless communication devices | 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 16.20.0 Release 16) [Exception] 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 | BS | N |
| ETSI TS 138 141-1 V16.21.0 (2025-07) | Wired/wireless communication devices | 5G; NR; Base Station (BS) conformance testing Part 1: Conducted conformance testing (3GPP TS 38.141-1 version 16.21.0 Release 16) [Exception] Clauses 6.3, 6.4, 6.5, 7.3, 7.8, 8 | 9 kHz ~ 26.5 GHz | BS | N |
| AS/CA S042.1:2025 | Wired/wireless communication devices | Requirements for connection to an air interface of a Telecommunications Network— Part 1: General | SPL:below 162 dB Frequency Range:100 Hz ~ 8 kHz Output Impedance:4 Ω Output level:below 10 W Input Impedance:1 kΩ | BS | N |
| ANSI/TIA-603-E:2016 | Wired/wireless communication devices | Land Mobile FM or PM – Communications Equipment - Measurement and Performance Standards | 9 kHz ~ 40 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|--------------------------------------|--|--------------------|------|---------------|
| ANSI C63.4:2014 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 302 208 V3.1.1:2016 | Wired/wireless communication devices | 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 | BS | N |
| IEEE Std1528:2003 | Wired/wireless communication devices | IEEE Recommended Practice for Determining the Peak Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices | 100 MHz ~ 6 GHz | BS | N |
| ANSI C63.10:2020 | Wired/wireless communication devices | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices | 9 kHz ~ 243 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|--------------------------------------|---|---|------|---------------|
| ANSI C63.10:2013 | Wired/wireless communication devices | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices | 9 kHz ~ 243 GHz | BS | N |
| RRA Notification No.2022-19 (10.17.2022.) | Wired/wireless communication devices | Technical Requirements for Broadcasting and Communication Equipment of Internet multimedia broadcasting business | Input impedance:above 1 MΩ Termination resistance:(95 ~ 105) Ω | BS | N |
| FCC Part 96:2019 | Wired/wireless communication devices | CITIZENS BROADBAND RADIO SERVICE | 9 kHz - 40 GHz | BS | N |
| RRA Notification No.2023-5(04.03 .2023.) | Wired/wireless communication devices | Technical Requirements for the Radio equipment for Simplified Service, Space station, Earth station, Sensors for Detecting and other equipments | 9 kHz ~ 26.5 GHz | BS | N |
| RSS-131 Issue 4:2022 | Wired/wireless communication devices | Zone Enhancers | 9 kHz ~ 40 GHz | BS | N |
| RSS-131 Issue 2:2003 | Wired/wireless communication devices | Zone Enhancers for the Land Mobile Service | 9 kHz ~ 26.5 GHz | BS | N |
| CS-03 Part VII Issue 9 Amendment 4:2012 | Wired/wireless communication devices | Part VII:Requirements for Limited-Distance Modem and Digital Substrate Terminal Equipment | Input impedance:1 MΩ Termination impedance:(141.75 ~ 128.25) Ω | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--|--------------------------------------|--|--|------|---------------|
| CS-03 Part VI Issue 9 Amendment1:2012 | Wired/wireless communication devices | Part VI:Requirements for Integrated Services Digital Network Terminal Equipment | Digital signal source:1.544 Mbps (DS-1) Termination impedance:100 Ω | BS | N |
| FCC Part 15H:2019 | Wired/wireless communication devices | WHITE SPACE DEVICES | 9 kHz - 7 GHz | BS | N |
| ETSI EN 303 345-5 V1.2.1:2021 | Wired/wireless communication devices | Broadcast Sound Receivers; Part 5:DRM broadcast sound service; Harmonised Standard for access to radio spectrum | 148.5 kHz ~ 240 MHz | BS | N |
| ETSI ES 203 021-2 V2.1.2:2006 | Wired/wireless communication devices | Access and Terminals (AT); Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks; Update of the technical contents of TBR 021, EN 301 437, TBR 015, TBR 017; Part 2: Basic transmission and protection of The network from harm | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|--------------------------------------|---|--------------------|------|---------------|
| ETSI EN 301 908-1 V13.1.1:2019 | Wired/wireless communication devices | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1:Introduction and common requirements | 30 MHz ~ 12.75 GHz | BS | N |
| ETSI EN 300 328 V2.2.2:2019 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 300 330 V2.1.1:2017 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 301 511 V9.0.2:2003 | Wired/wireless communication devices | 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 | BS | N |

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No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|--------------------------------------|--|-----------------|------|---------------|
| ETSI EN 301 893 V1.7.1:2012 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 301 908-13 V13.3.1:2024 | Wired/wireless communication devices | 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 | SF-3 | N |
| 3GPP TS 51 010-1 V13.14.0 Section 12.2 | Wired/wireless communication devices | 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 1: Conformance specification (Release 13) | 30 MHz ~ 4 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------------|--------------------------------------|---|------------------|------|---------------|
| ETSI TS 137 145-1 V16.16.0 (2025-04) | Wired/wireless communication devices | 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) [Exception] Clauses 6.3, 6.4, 6.5, 7.3, 7.8, 8 | 9 kHz ~ 26.5 GHz | BS | N |
| ETSI EN 301 908-2 V13.1.1:2020 | Wired/wireless communication devices | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE) [Exception] 4.2.14 Receiver Total Radiated Sensitivity (TRS) 4.2.15 Total Radiated Power (TRP) | 9 kHz ~ 26.5 GHz | BS | N |
| IEC/IEEE 63195-1:2022 | Wired/wireless communication devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------------|--------------------------------------|--|------------------|------|---------------|
| EN IEC/IEEE 63195-1:2023 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 301 908-13 V13.3.1:2024 | Wired/wireless communication devices | 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 | BS | N |
| ETSI TS 137 141 V16.21.0 (2024-05) | Wired/wireless communication devices | 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) [Exception] Clauses 6.3, 6.4, 6.5, 6.6.3, 7.3, 7.8, 8 | 9 kHz ~ 26.5 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------------|--------------------------------------|---|--------------------|------|---------------|
| ETSI EN 300 328 V1.9.1:2015 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 303 883 V1.1.1:2016 | Wired/wireless communication devices | Short Range Devices (SRD) using Ultra Wide Band (UWB); Measurement Techniques | 30 MHz ~ 40 GHz | BS | N |
| ETSI EN 301 908-15 V11.1.2:2017 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 301 908-15 V15.1.1:2020 | Wired/wireless communication devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|--------------------------------------|---|------------------|------|---------------|
| FCC Part 74:2019 | Wired/wireless communication devices | EXPERIMENTAL RADIO, AUXILIARY, SPECIAL BROADCAST AND OTHER PROGRAM DISTRIBUTIONAL SERVICES | 9 kHz - 100 GHz | BS | N |
| FCC Part 2.1055:2018 | Wired/wireless communication devices | Measurements required:Frequency stability | 9 kHz ~ 40 GHz | BS | N |
| FCC Part 2.1053:2018 | Wired/wireless communication devices | Measurements required:Field strength of spurious radiation | 9 kHz ~ 40 GHz | BS | N |
| ETSI EN 303 413 V1.1.1:2017 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 303 413 V1.2.1:2021 | Wired/wireless communication devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|--------------------------------------|---|--------------------|------|---------------|
| ETSI EN 300 328 V1.8.1:2012 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 301 893 V1.8.1:2015 | Wired/wireless communication devices | 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 | BS | N |
| EN 62479:2010 | Wired/wireless communication devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------------------------|--|---|------|---------------|
| ETSI EN 300 220-2 V2.4.1:2012 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 300 220-2 V3.1.1:2017 | Wired/wireless communication devices | 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 | BS | N |
| EN 62311:2008 | Wired/wireless communication devices | Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz) | 0Hz ~ 40 GHz | BS | N |
| ETSI TBR3 A1:1997 | Wired/wireless communication devices | Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN basic access | Load impedance:50 Ω, 400 Ω Frequency range:100 Hz ~ 10 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|--------------------------------------|--|--|------|---------------|
| EN 50360:2001 | Wired/wireless communication devices | Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields | 100 MHz ~ 6 GHz | BS | N |
| EN 62209-1:2016 | Wired/wireless communication devices | 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 | BS | N |
| ANSI C63.19:2019 | Wired/wireless communication devices | American National Standard Methods of Measurements of Compatibility between wireless Communication devices and Hearing Aids | H Field: 10 mA/m ~ 2 A/m E Field: 2 V/m ~ 1 000 V/m | BS | N |
| FCC Part 95:2019 | Wired/wireless communication devices | PERSONAL RADIO SERVICES | 9 kHz - 325 GHz | BS | N |
| MSIT Notification No.2023-18(06.20.2023.) | Wired/wireless communication devices | Technical requirements for unlicensed radio equipment | 9 kHz ~ 40 GHz | BS | N |
| MSIT Notification No.2018-1(01.19.2018.) | Wired/wireless communication devices | Notification for Installation requirements of Intergrated Reception System | Frequency range:(5.75 ~ 2 150) MHz Input Impedance:75 Ω | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|--------------------------------------|---|---|------|---------------|
| WINNF-TS-0122 V1.0.2 | Wired/wireless communication devices | 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 | BS | N |
| SKMM MTSFB TC T001:2013 | Wired/wireless communication devices | SPECIFICATION FOR TERMINAL EQUIPMENT CONNECTING TO THE PUBLIC SWITCHED TELEPHONE NETWORK (PSTN) | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ | BS | N |
| RSS-Gen Issue 5, Amendment 2:2021 | Wired/wireless communication devices | General Requirements for Compliance of Radio Apparatus | 9 kHz ~ 200 GHz | BS | N |
| RSS-GEN Issue 5:2018 | Wired/wireless communication devices | General Requirements for Compliance of Radio Apparatus | F | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------------------------|--|------------------|------|---------------|
| ETSI EN 303 360 V1.1.1:2017 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 305 550-1 V1.2.1:2014 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 302 065-5 V1.1.1:2017 | Wired/wireless communication devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--|--------------------------------------|--|--|------|---------------|
| ETSI EN 302 291-1 V1.1.1:2005 | Wired/wireless communication devices | 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 | BS | N |
| RSS-199 Issue 4:2023 | Wired/wireless communication devices | Broadband Radio Service (BRS) Equipment Operating in the Band 2500-2690 MHz | 9 kHz ~ 40 GHz | BS | N |
| RSS-139 Issue4 Amendment:2022 | Wired/wireless communication devices | Advanced Wireless Services Equipment Operating in the Bands 1710 - 1755 MHz and 2110 - 2155 MHz | 9 kHz ~ 26.5 GHz | BS | N |
| ETSI EN 301 908-11 V5.2.1:2011 | Wired/wireless communication devices | 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 | BS | N |
| MSIT Notification No.2022-63 (11.09.2022.) | Wired/wireless communication devices | Technical Requirements for CATV Equipment | Frequency range:(5.75 ~ 1 002) MHz Input Impedance:75 Ω | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|--------------------------------------|---|--------------------|------|---------------|
| ETSI EN 301 893 V1.6.1:2011 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 300 328 V1.7.1:2006 | Wired/wireless communication devices | 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 | BS | N |
| EN 50385:2002 | Wired/wireless communication devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--|--------------------------------------|--|------------------|------|---------------|
| ETSI EN 300 220-2 V3.2.1:2018 | Wired/wireless communication devices | 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 | BS | N |
| EN 62209-1:2006 | Wired/wireless communication devices | 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 | BS | N |
| RSS-130:2019 | Wired/wireless communication devices | Equipment Operating in the Frequency Bands 617-652 MHz, 663-698 MHz, 698-756 MHz and 777-787 MHz | 9 kHz - 8 GHz | BS | N |
| RRA Notification No.2022-15(07.29.2022.) | Wired/wireless communication devices | Technical Requirements for the Radio Equipment of Telecommunications Service | 9 kHz ~ 26.5 GHz | BS | N |
| RRA Notification No.2018-18(12.07.2018.) | Wired/wireless communication devices | Technical Requirements for Measurements of Specific Absorption Rate (SAR) | 100 MHz ~ 6 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------------------------|--|------------------|------|---------------|
| MSIT Act No.86(01.04.2022.) | Wired/wireless communication devices | Rules on Radio equipment | 9 kHz ~ 40 GHz | BS | N |
| ETSI EN 302 858 V2.1.1:2016 | Wired/wireless communication devices | 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 | BS | N |
| ETSI EN 303 372-2 V1.2.1:2021 | Wired/wireless communication devices | 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 | BS | N |
| ARIB STD-T56 3.3:2015 | Wired/wireless communication devices | SPECIFIC ABSORPTION RATE (SAR) ESTIMATION FOR CELLULAR PHONE | 30 MHz ~ 6 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|--------------------------------------|---|--------------------|------|---------------|
| ETSI EN 302 065-3 V2.1.1:2016 | Wired/wireless communication devices | 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 3:Requirements for UWB devices for ground based vehicular applications | 30 MHz ~ 40 GHz | BS | N |
| CTIA 01.01 v6.0.3:2024 | Wired/wireless communication devices | Test Scope, Requirements, and Applicability [Exception] 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 | SF-3 | N |
| ETSI EN 301 908-1 V15.1.1:2021 | Wired/wireless communication devices | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements | 30 MHz ~ 12.75 GHz | BS | N |
| FCC Part 15F:2019 | Wired/wireless communication devices | ULTRA-WIDEBAND OPERATION | 9 kHz - 200 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|--------------------------------------|---|--|------|---------------|
| ETSI EN 301 908-2 V13.1.1:2020 | Wired/wireless communication devices | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE) 4.2.14 Receiver Total Radiated Sensitivity (TRS) 4.2.15 Total Radiated Power (TRP) | 600 MHz ~ 6 GHz | SF-3 | N |
| CTIA 01.20 v8.0.1:2025 | Wired/wireless communication devices | Test Methodology, SISO, Anechoic Chamber | 600 MHz ~ 6 GHz | SF-3 | N |
| CTIA 01.01 v8.0.2:2025 | Wired/wireless communication devices | Test-Scope-Requirements-Applicability [제외항목] A-GPS L1, A-GPS L5, A-GALILEO E1, A-GALILEO E5, NR FR1 Red Cap | 600 MHz ~ 6 GHz | SF-3 | N |
| CWG Test Plan v8.0.0:2025 | Wired/wireless communication devices | Test Plan for RF Performance Evaluation of Wi-Fi Mobile Converged Devices [제외항목] 802.11ax | 600 MHz ~ 6 GHz | SF-3 | N |
| QCVN 110:2023/BTTTT | Wired/wireless communication devices | National technical regulation on Evolved Universal Terrestrial Radio Access (E-UTRA) Base stations (BS) - Radio Access | 9 kHz ~ 26.5 GHz | BS | N |
| FCC Part 68:2023 | Wired/wireless communication devices | Connection of Terminal Equipment to the Telephone Network | Input impedance:600 Ω Frequency range:100 Hz ~ 10 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------|--------------------------------------|--|--|------|---------------|
| TIA-968-B:2009 | Wired/wireless communication devices | Telecommunications Telephone Terminal Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network | Input impedance:600 Ω Frequency range:100 Hz ~ 10 MHz | BS | N |
| TIA-968-B-1:2012 | Wired/wireless communication devices | Telecommunications Telephone Terminal Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network-Addendum 1 | Input impedance:600 Ω Frequency range:100 Hz ~ 10 MHz | BS | N |
| TIA-968-B-2:2015 | Wired/wireless communication devices | Telecommunications Telephone Terminal Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone Network-Addendum 2 | Input impedance:600 Ω Frequency range:100 Hz ~ 10 MHz | BS | N |
| ETSI EN 301 908-23 V15.1.1:2023 | Wired/wireless communication devices | IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 23: Active Antenna System (AAS) Base Station (BS); Release 15 [Exception] Clauses 4.3.13, 4.3.14, 4.3.15, 4.3.16, 4.3.18, 4.3.19, 4.3.20, 4.3.21, 4.3.22, 4.3.23, 4.3.25 | 9 kHz ~ 26.5 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|--------------------------------------|---|--|------|---------------|
| QCVN 54:2020/BTTTT | Wired/wireless communication devices | National technical regulation on wideband data transmission equipment operating in the 2,4 GHz band | 30 MHz ~ 12.75 GHz | BS | N |
| QCVN 55:2023/BTTTT | Wired/wireless communication devices | National technical regulation on Short Range Device (SRD)- Radio equipment to be used in the 9 kHz to 25 MHz frequency range | 9 kHz ~ 1 000 MHz | BS | N |
| QCVN 65:2021/BTTTT | Wired/wireless communication devices | National technical regulation on radio access equipment operating in the 5 GHz RLAN band | 30 MHz ~ 26 GHz | BS | N |
| AS/CA S043.2:2016 Amdt No. 2/2018 | Wired/wireless communication devices | Requirements for Customer Equipment for connection to a metallic local loop interface of a Telecommunications Network — Part 2: Broadband | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------------|--------------------------------------|--|-------------------|------|---------------|
| QCVN 117:2023/BTTTT | Wired/wireless communication devices | National technical regulation on GSM, W-CDMA, E-UTRA Land Mobile User Equipment - Radio Access | 9 kHz ~ 13.45 GHz | BS | N |
| QCVN 123:2021/BTTTT | Wired/wireless communication devices | National technical regulation on Short Range Device (SRD) – Radio equipment to be used in the 40 GHz to 246 GHz frequency range | 47 MHz ~ 300 GHz | BS | N |
| QCVN 127:2021/BTTTT | Wired/wireless communication devices | National technical regulation on Standalone 5G User Equipment - Radio Access | 9 kHz ~ 26 GHz | BS | N |
| QCVN 128:2021/BTTTT | Wired/wireless communication devices | National technical regulation on 5G Base Station - Radio Access | 9 kHz ~ 60 GHz | BS | N |
| QCVN 129:2021/BTTTT | Wired/wireless communication devices | National technical regulation on Non-Standalone 5G User Equipment - Radio Access | 9 kHz ~ 26 GHz | BS | N |
| ANSI/USEMCSC C63.10-2020/Cor 1:2023 | Wired/wireless communication devices | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices | 9 kHz ~ 243 GHz | BS | N |
| ANSI/USEMCSC C63.10a-2024 | Wired/wireless communication devices | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices | 9 kHz ~ 243 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|--------------------------------------|---|-----------------|------|---------------|
| ANSI/USEMCSC C63.10-2020/Cor 1-2023 + ANSI/USEMCSC C63.10a-2024 + Errata to ANSI/USEMCSC C63.10a-2024 | Wired/wireless communication devices | Errata to American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices | 9 kHz ~ 243 GHz | BS | N |
| RSS-193 Issue 1:2025 | Wired/wireless communication devices | Flexible Use Broadband Equipment Operating in the Band 27.5-28.35 GHz | 9 kHz - 100 GHz | BS | N |
| EN 50566:2017+ A2:2025 | Wired/wireless communication devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|--------------------------------------|---|--|------|---------------|
| AS/CA S043.2:2016 Amdt No. 1/2017 | Wired/wireless communication devices | Requirements for Customer Equipment for connection to a metallic local loop interface of a Telecommunications Network — Part 2: Broadband | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|--------------------------------------|---|--|------|---------------|
| AS/CA S043.2:2016 | Wired/wireless communication devices | Requirements for Customer Equipment for connection to a metallic local loop interface of a Telecommunications Network — Part 2: Broadband | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|--------------------------------------|--|--|------|---------------|
| AS/CA S041.3:2015 | Wired/wireless communication devices | Requirements for DSL Customer Equipment for connection to the Public Switched Telephone Network — Part 3: Filters for use in connection with all xDSL services | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|--------------------------------------|--|--|------|---------------|
| AS/CA S041.2:2015 | Wired/wireless communication devices | Requirements for DSL Customer Equipment for connection to the Public Switched Telephone Network — Part 2: Modems for use in connection with all DSL services | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|--------------------------------------|--|--|------|---------------|
| AS/CA S003.3:2010 | Wired/wireless communication devices | Requirements for Customer Access Equipment for connection to a Telecommunications Network — Part 3: Packet and cell based technologies | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|--------------------------------------|---|--|------|---------------|
| AS/CA S003.2:2010 | Wired/wireless communication devices | Requirements for Customer Access Equipment for connection to a Telecommunications Network — Part 2: Analogue and TDM based technologies | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|--------------------------------------|---|--|------|---------------|
| AS/CA S003.1:2010 Amdt No. 1/2012 | Wired/wireless communication devices | Requirements for Customer Access Equipment for connection to a Telecommunications Network — Part 1: General | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------------|--------------------------------------|--|--|------|---------------|
| AS/CA S002:2010 Amdt No. 1/2012 | Wired/wireless communication devices | Analogue interworking and non-interference requirements for Customer Equipment for connection to the Public Switched Telephone Network | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|--------------------------------------|--|--|------|---------------|
| AS/CA S043.3:2015 | Wired/wireless communication devices | Requirements for Customer Equipment for connection to a metallic local loop interface of a Telecommunications Network — Part 3: DC, low frequency AC and voiceband | Loop feed channel output Voltage:DC:below 110 V Current limit:below 200 mA Voltage resolution:30 mV Voltage accuracy:200 mV Polarity switching time:under 0.2 ms Series resistance:below 300 kΩ Ring generator Output voltage:AC:(0 ~ 150) V Frequency:(15 ~ 100) Hz | BS | N |
| 3GPP TS 37.544 V16.7:2025 | Wired/wireless communication devices | 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 | SF-3 | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--|--------------------------------------|---|--------------------|------|---------------|
| 3GPP TS 38.561 V18.4.0 (2025-12) | Wired/wireless communication devices | 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; User Equipment (UE) conformance specification; UE TRP (Total Radiated Power) and TRS (Total Radiated Sensitivity) requirements and test methodologies for FR1 (NR SA and EN-DC); (Release 18) | 600 MHz ~ 6 GHz | SF-3 | N |
| ETSI EN 300 220-2 V3.3.1:2025 | Wired/wireless communication devices | Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz with power levels ranging up to 500 mW e.r.p.; Part 2: Harmonised Standard for access to radio spectrum for non specific radio equipment | 25 MHz ~ 6 GHz | BS | N |
| ETSI EN 302 208 V3.4.1:2023 | Wired/wireless communication devices | 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 | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

03. Electrical Testing

03.010 Medical devices

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|--------------------|--|--|------|---------------|
| EN 60601-1:2006 +A2:2021 | Medical devices | <p>Medical electrical equipment - Part 1:General requirements for basic safety and essential performance</p> <p>[exception]</p> <p>8.8.4.2 Resistance to environmental stress - Requirements of insulating material for rubber</p> <p>8.9.1.7 Material groups classification</p> <p>9.5.2 Cathode ray tubes</p> <p>10.3 Microwave radiation</p> <p>ME EQUIPMENT and ME SYSTEMS used in conjunction with OXYGEN RICH ENVIRONMENTS SINGLE FAULT CONDITIONS related to OXYGEN RICH ENVIRONMENTS in conjunction with ME EQUIPMENT and ME SYSTEMS</p> <p>11.6.7 Sterilization of ME EQUIPMENT and ME SYSTEMS</p> <p>15.4.2.1 f) Application</p> <p>15.4.3.4 Lithium batteries</p> <p>Annex G Protection against HAZARDS of ignition of flammable anaesthetic mixtures</p> | <p>Voltage:Max. 300 Va.c.</p> <p>Current:Max. 30 A</p> <p>Frequency:(50 ~ 60) Hz</p> <p>Applied voltage: Max. 10 kV a.c./ 10 kV d.c.</p> <p>Applied temperature:(-40 ~ 150) °C</p> <p>Measuring temperature:Max. 200 °C</p> <p>Humidity:Max. 98 % R.H.</p> | BS | N |

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No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|--------------------|---|---|------|---------------|
| | | Annex L Insulated winding wires for use without interleaved insulation | | | |
| IEC 60601-2-62:2013 | Medical devices | 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. Current: Max. 30 A Frequency: (50 ~ 60) Hz Applied voltage : Max 10 kVa.c. / 10 kVd.c. Applied temperature: (-40 ~ 150) °C Measuring temperature: Max. 200 °C Humidity: Max. 98 % R.H. | BS | N |
| EN 60601-1-11:2015+A1:2021 | Medical devices | 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. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c./ 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------|--------------------|---|---|------|---------------|
| EN 60601-1-11:2015 | Medical devices | 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. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |
| IEC 60601-1:2005 +A1:2012 | Medical devices | Medical electrical equipment - Part 1:General requirements for basic safety and essential performance [exception] 8.8.4.2 Resistance to environmental stress - Requirements of insulating material for rubber 8.9.1.7 Material groups classification 9.5.2 Cathode ray tubes 10.3 Microwave radiation 11.2.2 ME EQUIPMENT and ME SYSTEMS used in conjunction with OXYGEN RICH ENVIRONMENTS 11.2.3 SINGLE FAULT CONDITIONS related to OXYGEN RICH | Voltage:Max. 300 Va.c. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |

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No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------|--------------------|---|--|------|---------------|
| | | <p>ENVIRONMENTS in conjunction with ME EQUIPMENT and ME SYSTEMS</p> <p>11.6.7 Sterilization of ME EQUIPMENT and ME SYSTEMS</p> <p>15.4.2.1 f) Application</p> <p>15.4.3.4 Lithium batteries</p> <p>Annex G Protection against HAZARDS of ignition of flammable anaesthetic mixtures</p> <p>Annex L Insulated winding wires for use without interleaved insulation</p> | | | |
| IEC 60601-2-66:2019 | Medical devices | <p>Medical electrical equipment</p> <p>- Part 2-66:</p> <p>Particular requirements for the basic safety and essential performance of hearing aids and hearing aid systems</p> | <p>Voltage:Max. 300 Va.c.</p> <p>Current:Max. 30 A</p> <p>Frequency:(50 ~ 60) Hz</p> <p>Applied voltage:Max. 10 kV a.c. / 10 kV d.c.</p> <p>Applied temperature:(-40 ~ 150) °C</p> <p>Measuring temperature:Max. 200 °C</p> <p>Humidity:Max. 98 % R.H.</p> | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|--------------------|---|---|------|---------------|
| EN IEC 80601-2-60:2020 | Medical devices | Medical electrical equipment - Part 2-60:Particular requirements for the basic safety and essential performance of dental equipment | Voltage:Max. 300 Va.c. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |
| EN 60601-1:2006 +A1:2013 | Medical devices | Medical electrical equipment - Part 1:General requirements for basic safety and essential performance [exception] 8.8.4.2 Resistance to environmental stress - Requirements of insulating material for rubber 8.9.1.7 Material groups classification 9.5.2 Cathode ray tubes 10.3 Microwave radiation 11.2.2 ME EQUIPMENT and ME SYSTEMS used in conjunction with OXYGEN RICH ENVIRONMENTS 11.2.3 SINGLE FAULT CONDITIONS related to OXYGEN RICH | Voltage:Max. 300 Va.c. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------|--------------------|--|---|------|---------------|
| | | ENVIRONMENTS in conjunction with ME EQUIPMENT and ME SYSTEMS 11.6.7 Sterilization of ME EQUIPMENT and ME SYSTEMS 15.4.2.1 f) Application 15.4.3.4 Lithium batteries Annex G Protection against HAZARDS of ignition of flammable anaesthetic mixtures Annex L Insulated winding wires for use without interleaved insulation | | | |
| IEC 60601-2-47:2012 | Medical devices | Medical electrical equipment - Part 2-47:Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems | Voltage:Max. 300 Va.c. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|--------------------|---|--|------|---------------|
| EN IEC 60601-2-2:2018 | Medical devices | 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 [exception] 201.15.101.5 NE thermal performance | Voltage:Max. 300 Va.c. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |
| EN 60601-2-22:2013 | Medical devices | 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. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H Laser power : Max. 120 W / 100 J Laser wavelength: Max. 11 μm | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|--------------------|---|---|------|---------------|
| IEC 60601-2-66:2015 | Medical devices | 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. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |
| IEC 60601-1-6:2010+A1:2013 | Medical devices | Medical electrical equipment – Part 1-6:General requirements for basic safety and essential performance – Collateral standard:Usability | - | BS | N |
| IEC 60601-1-11:2015+A1:2020 | Medical devices | 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. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage: Max. 10 kV a.c./ 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|--------------------|---|---|------|---------------|
| IEC 60601-2-18:2009 | Medical devices | Medical electrical equipment - Part 2-18:Particular requirements for the basic safety and essential performance of endoscopic equipment | Voltage:Max. 300 Va.c. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |
| IEC 60601-2-25:2011 | Medical devices | Medical electrical equipment - Part 2-25:Particular requirements for the basic safety and essential performance of electrocardiographs | Voltage:Max. 300 Va.c. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|--------------------|---|--|------|---------------|
| EN 60601-2-5:2015 | Medical devices | Medical electrical equipment - Part 2-5: Particular requirements for the basic safety and essential performance of ultrasonic physiotherapy equipment | Voltage: Max 300 Va.c. Current: Max. 30 A Frequency: (50 ~ 60) Hz Applied voltage : Max 10 kVa.c. / 10 kVd.c. Applied temperature: (-40 ~ 150) °C Measuring temperature: Max. 200 °C Humidity: Max. 98 % R.H. | BS | N |
| IEC 80601-2-49:2018 | Medical devices | Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors | Voltage: Max. 300 Va.c. Current: Max. 30 A Frequency: (50 ~ 60) Hz Applied voltage: Max. 10 kV a.c. / 10 kV d.c. Applied temperature: (-40 ~ 150) °C Measuring temperature: Max. 200 °C Humidity: Max. 98 % R.H. | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|--------------------|--|---|------|---------------|
| IEC 80601-2-60:2012 | Medical devices | Medical electrical equipment - Part 2-60:Particular requirements for the basic safety and essential performance of dental equipment | Voltage:Max. 300 Va.c. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |
| EN 60601-1-10:2008+A1:2015 | Medical devices | 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 | - | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|--------------------|---|--|------|---------------|
| IEC 60601-2-57:2011 | Medical devices | 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. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |
| IEC 60601-2-22:2019 | Medical devices | 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. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H Laser power : Max. 120 W / 100 J Laser wavelength: Max. 11 μm | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|--------------------|---|--|------|---------------|
| IEC 60601-2-22:2007+A1:2012 | Medical devices | 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. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H Laser power : Max. 120 W / 100 J Laser wavelength: Max. 11 μm | BS | N |
| EN 80601-2-60:2015 | Medical devices | Medical electrical equipment - Part 2-60:Particular requirements for the basic safety and essential performance of dental equipment | Voltage:Max. 300 Va.c. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |
| IEC 60601-1:2005+A2:2020 | Medical devices | Medical electrical equipment - Part 1:General requirements for basic | Voltage:Max. 300 Va.c. Current:Max. 30 A Frequency:(50 ~ 60) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------|--------------------|---|--|------|---------------|
| | | safety and essential performance [exception] 8.8.4.2 Resistance to environmental stress - Requirements of insulating material for rubber 8.9.1.7 Material groups classification 9.5.2 Cathode ray tubes 10.3 Microwave radiation ME EQUIPMENT and ME SYSTEMS used in conjunction with OXYGEN RICH ENVIRONMENTS SINGLE FAULT CONDITIONS related to OXYGEN RICH ENVIRONMENTS in conjunction with ME EQUIPMENT and ME SYSTEMS 11.6.7 Sterilization of ME EQUIPMENT and ME SYSTEMS 15.4.2.1 f) Application 15.4.3.4 Lithium batteries Annex G Protection against HAZARDS of ignition of flammable anaesthetic mixtures Annex L Insulated winding wires for use without interleaved insulation | Applied voltage: Max. 10 kV a.c./ 10 kV d.c. Applied temperature: (-40 ~ 150) °C Measuring temperature: Max. 200 °C Humidity:Max. 98 % R.H. | | |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|--------------------|--|----------------------------------|------|---------------|
| IEC 60601-1-6:2010+A2:2020 | Medical devices | Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard:Usability | - | BS | N |
| IEC 60601-1-8:2006+A1:2012 | Medical devices | 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 | BS | N |
| IEC 60601-1-8:2006+A2:2020 | Medical devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------|--------------------|--|---|------|---------------|
| EN 60601-2-18:2015 | Medical devices | Medical electrical equipment - Part 2-18:Particular requirements for the basic safety and essential performance of endoscopic equipment | Voltage:Max. 300 Va.c. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |
| EN 60601-1-8:2007+A2:2021 | Medical devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------|--|--|------|---------------|
| IEC 80601-2-49:2018+AMD1:2024 | Medical devices | Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors | Voltage : Max. 300 Va.c. Current : Max. 30 A Frequency : (50 ~ 60) Hz Applied voltage : Max. 10 kVa.c. / 10 kVd.c. Applied temperature : (-40 ~ 150) °C Temperature : Max. 200 °C Humidity : Max. 98 %R.H. | BS | N |
| EN 60601-2-66:2015 | Medical devices | 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. Current: Max. 30 A Frequency: (50 ~ 60) Hz Applied voltage: Max. 10 kV a.c. / 10 kV d.c. Applied temperature: (-40 ~ 150) °C Measuring temperature: Max. 200 °C Humidity: Max. 98 % R.H. | BS | N |

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No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|--------------------|--|------------|------|---------------|
| IEC 60601-1-10:2007+A1:2013 | Medical devices | 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 | - | BS | N |
| IEC 60601-1-10:2007+A2:2020 | Medical devices | 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 | - | BS | N |
| EN 60601-1-6:2010+A2:2021 | Medical devices | Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard:Usability | - | BS | N |
| EN 60601-1-6:2010+A1:2015 | Medical devices | Medical electrical equipment – Part 1-6:General requirements for basic safety and essential performance – Collateral standard:Usability | - | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|--------------------|--|---|------|---------------|
| IEC 60601-2-10:2012+AMD1:2016+AMD2:2023 | Medical devices | 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. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |
| EN IEC 60601-2-66:2020 | Medical devices | 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. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------|--------------------|---|--|------|---------------|
| EN IEC 60601-2-22:2020 | Medical devices | 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. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H Laser power : Max. 120 W / 100 J Laser wavelength: Max. 11 μm | BS | N |
| IEC 60601-2-2:2017 | Medical devices | 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 [exception] 201.15.101.5 NE thermal performance | Voltage:Max. 300 Va.c. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|--------------------|---|---|------|---------------|
| IEC 60601-2-10:2012+A1:2016 | Medical devices | 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. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |
| IEC 60601-2-49:2011 | Medical devices | 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. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|--------------------|---|--|------|---------------|
| IEC 60601-2-5:2009 | Medical devices | Medical electrical equipment - Part 2-5: Particular requirements for the basic safety and essential performance of ultrasonic physiotherapy equipment | Voltage: Max 300 Va.c. Current: Max. 30 A Frequency: (50 ~ 60) Hz Applied voltage : Max 10 kVa.c. / 10 kVd.c. Applied temperature: (-40 ~ 150) °C Measuring temperature: Max. 200 °C Humidity: Max. 98 % R.H. | BS | N |
| EN 60601-2-25:2015 | Medical devices | Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs | Voltage: Max. 300 Va.c. Current: Max. 30 A Frequency: (50 ~ 60) Hz Applied voltage: Max. 10 kV a.c. / 10 kV d.c. Applied temperature: (-40 ~ 150) °C Measuring temperature: Max. 200 °C Humidity: Max. 98 % R.H. | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|--------------------|--|---|------|---------------|
| EN 60601-2-27:2014 | Medical devices | Medical electrical equipment - Part 2-27:Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment | Voltage:Max. 300 Va.c. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |
| EN 60601-2-47:2015 | Medical devices | Medical electrical equipment - Part 2-47:Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems | Voltage:Max. 300 Va.c. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|--------------------|---|---|------|---------------|
| EN 60601-2-49:2015 | Medical devices | 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. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |
| EN 60601-2-57:2011 | Medical devices | 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. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |

Korea Laboratory Accreditation Scheme

No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|--------------------|---|---|------|---------------|
| EN 60601-1-10:2008+A2:2021 | Medical devices | 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 | - | BS | N |
| IEC 60601-2-27:2011 | Medical devices | Medical electrical equipment - Part 2-27:Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment | Voltage:Max. 300 Va.c. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |
| EN 60601-1-8:2007+A1:2013 | Medical devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|--------------------|--|---|------|---------------|
| EN 60601-2-10:2015+A1:2016 | Medical devices | 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. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |
| EN 60601-2-62:2015 | Medical devices | 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. Current: Max. 30 A Frequency: (50 ~ 60) Hz Applied voltage : Max 10 kVa.c. / 10 kVd.c. Applied temperature: (-40 ~ 150) °C Measuring temperature: Max. 200 °C Humidity: Max. 98 % R.H. | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|--------------------|---|--|------|---------------|
| IEC 60601-1-11:2015 | Medical devices | 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. Current:Max. 30 A Frequency:(50 ~ 60) Hz Applied voltage:Max. 10 kV a.c. / 10 kV d.c. Applied temperature:(-40 ~ 150) °C Measuring temperature:Max. 200 °C Humidity:Max. 98 % R.H. | BS | N |
| IEC 80601-2-60:2019 | Medical devices | Medical electrical equipment - Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment | Voltage : Max. 300 Va.c. Current : Max. 30 A Frequency : (50 ~ 60) Hz Applied voltage : Max. 10 kVa.c. / 10 kVd.c. Applied temperature : (-40 ~ 150) °C Temperature : Max. 200 °C Humidity : Max. 98 %R.H. | BS | N |

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03. Electrical Testing

03.011 EMC (Electromagnetic Compatibility)

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------|---|--|------|---------------|
| IEC 80601-2-77:2019 | Medical devices | Medical electrical equipment – Part 2-77: Particular requirements for the BASIC SAFETY and essential performance of ROBOTICALLY ASSISTED SURGICAL EQUIPMENT 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic disturbances – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |
| IEC 80601-2-49:2018+AMD1:2024 | Medical devices | Medical electrical equipment – Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic disturbances – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |

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No. KT197

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|--------------------|--|--|------|---------------|
| IEC 80601-2-30:2018 | Medical devices | Medical electrical equipment – Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic disturbances – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |
| IEC 80601-2-26:2019 | Medical devices | 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 CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|--------------------|---|--|------|---------------|
| IEC 60601-2-83:2019+AMD1:2022 | Medical devices | <p>Medical electrical equipment – Part 2-83: Particular requirements for the basic safety and essential performance of home light therapy equipment</p> <p>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS</p> <p>202 Electromagnetic disturbances – Requirements and tests</p> | <p>RE:30 MHz ~ 18 GHz</p> <p>CE:9 kHz ~ 30 MHz</p> <p>Harmonics: below 16 A</p> <p>Flicker: below 16 A</p> <p>ESD:±15 kV(Air) ±8 kV(Contact)</p> <p>RS:80 MHz ~ 6 GHz</p> <p>EFT:±2 kV</p> <p>SURGE:±2 kV</p> <p>CS:150 kHz ~ 80 MHz</p> <p>MF:30 A/m</p> <p>V-DIP:(0 ~ 100) %</p> <p>TI : -600 ~ 200V</p> <p>PMF:10 kHz ~ 13.56 MHz</p> | BS | N |
| IEC 60601-2-65:2012+AMD1:2017+AMD2:2021 | Medical devices | <p>Medical electrical equipment – Part 2-65: Particular requirements for the basic safety and essential performance of dental intra-oral X-ray equipment</p> <p>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS</p> <p>202 Electromagnetic compatibility – Requirements and tests</p> | <p>RE:30 MHz ~ 18 GHz</p> <p>CE:9 kHz ~ 30 MHz</p> <p>Harmonics: below 16 A</p> <p>Flicker: below 16 A</p> <p>ESD:±15 kV(Air) ±8 kV(Contact)</p> <p>RS:80 MHz ~ 6 GHz</p> <p>EFT:±2 kV</p> <p>SURGE:±2 kV</p> <p>CS:150 kHz ~ 80 MHz</p> <p>MF:30 A/m</p> <p>V-DIP:(0 ~ 100) %</p> <p>TI : -600 ~ 200V</p> <p>PMF:10 kHz ~ 13.56 MHz</p> | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|--------------------|---|--|------|---------------|
| IEC 60601-2-63:2012+AMD1:2017+AMD2:2021 | Medical devices | Medical electrical equipment – Part 2-63: Particular requirements for the basic safety and essential performance of dental extra-oral X-ray equipment 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic compatibility – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |
| IEC 60601-2-62:2013 | Medical devices | Medical electrical equipment – Part 2-62: Particular requirements for the basic safety and essential performance of high intensity therapeutic ultrasound (HITU) equipment 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic compatibility – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------|---|--|------|---------------|
| IEC 60601-2-54:2022 | Medical devices | Medical electrical equipment – Part 2-54: Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic disturbances – Requirements and tests 202.101 Immunity testing of ESSENTIAL PERFORMANCE | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |
| IEC 60601-2-50:2020+AMD1:2023 | Medical devices | Medical electrical equipment – Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic disturbances – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|--------------------|---|--|------|---------------|
| IEC 60601-2-47:2012 | Medical devices | Medical electrical equipment – Part 2-47: Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic compatibility – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |
| IEC 60601-2-45:2011+AMD1:2015+AMD2:2022 | Medical devices | Medical electrical equipment – Part 2-45: Particular requirements for the basic safety and essential performance of mammographic X-ray equipment and mammographic stereotactic devices 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic compatibility – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------|--|--|------|---------------|
| IEC 80601-2-78:2019+AMD1:2024 | Medical devices | Medical electrical equipment – Part 2-78: Particular requirements for basic safety and essential performance of medical robots for rehabilitation, assessment, compensation or alleviation 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic disturbances – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |
| ISO 80601-2-56:2017+AMD1:2018 | Medical devices | Medical electrical equipment - Part 2-56 Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic disturbances – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|--------------------|--|--|------|---------------|
| ISO 80601-2-61:2017 | Medical devices | Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic disturbances – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |
| IEC 60601-2-22:2019 | Medical devices | Medical electrical equipment – Part 2-22: Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment 201.17 Electromagnetic compatibility of ME EQUIPMENT AND ME SYSTEMS | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------|--|--|------|---------------|
| IEC 60601-2-52:2009+AMD1:2015 | Medical devices | Medical electrical equipment – Part 2-52: Particular requirements for the basic safety and essential performance of medical beds 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |
| IEC 60601-2-57:2023 | Medical devices | 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 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|--------------------|--|--|------|---------------|
| IEC 60601-2-66:2019 | Medical devices | Medical electrical equipment – Part 2-66: Particular requirements for the basic safety and essential performance of hearing aids and hearing aid systems 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS [Exception] Hearing aid additional testing for immunity to digital wireless interference | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |
| IEC 80601-2-60:2019 | Medical devices | Medical electrical equipment – Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|--------------------|---|---|------|---------------|
| IEC 60601-2-44:2009+AMD1:2012+AMD2:2016 | Medical devices | <p>Medical electrical equipment – Part 2-44: Particular requirements for the basic safety and essential performance of X-ray equipment for computed tomography</p> <p>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS</p> <p>202 Electromagnetic compatibility – Requirements and tests</p> | <p>RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz</p> | BS | N |
| IEC 60601-2-40:2016 | Medical devices | <p>Medical electrical equipment – Part 2-40: Particular requirements for the basic safety and essential performance of electromyographs and evoked response equipment</p> <p>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS</p> <p>202 Electromagnetic disturbances – Requirements and tests</p> | <p>RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz</p> | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|--------------------|---|---|------|---------------|
| IEC 60601-2-37:2024 | Medical devices | <p>Medical electrical equipment – Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment</p> <p>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS</p> <p>202 Electromagnetic disturbances – Requirements and tests</p> | <p>RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz</p> | BS | N |
| IEC 60601-2-36:2014 | Medical devices | <p>Medical electrical equipment – Part 2-36: Particular requirements for the basic safety and essential performance of equipment for extracorporeally induced lithotripsy</p> <p>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS</p> <p>202 Electromagnetic compatibility – Requirements and tests</p> | <p>RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz</p> | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------|--|--|------|---------------|
| IEC 60601-2-35:2020+AMD1:2023 | Medical devices | 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 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic disturbances – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |
| IEC 60601-2-34:2024 | Medical devices | Medical electrical equipment – Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic disturbances – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|--------------------|--|--|------|---------------|
| IEC 60601-2-27:2011 | Medical devices | Medical electrical equipment – Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic compatibility – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |
| IEC 60601-2-25:2011 | Medical devices | Medical electrical equipment – Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic compatibility – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|--------------------|---|--|------|---------------|
| IEC 60601-2-23:2011 | Medical devices | Medical electrical equipment – Part 2-23: Particular requirements for the basic safety and essential performance of transcutaneous partial pressure monitoring equipment 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic compatibility – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |
| IEC 60601-2-18:2009 | Medical devices | Medical electrical equipment – Part 2-18: Particular requirements for the basic safety and essential performance of endoscopic equipment 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic compatibility – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|--------------------|---|--|------|---------------|
| IEC 60601-2-10:2012+AMD1:2016+AMD2:2023 | Medical devices | <p>Medical electrical equipment – Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators</p> <p>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS</p> <p>202 Electromagnetic disturbances – Requirements and tests</p> | <p>RE:30 MHz ~ 18 GHz</p> <p>CE:9 kHz ~ 30 MHz</p> <p>Harmonics: below 16 A</p> <p>Flicker: below 16 A</p> <p>ESD:±15 kV(Air) ±8 kV(Contact)</p> <p>RS:80 MHz ~ 6 GHz</p> <p>EFT:±2 kV</p> <p>SURGE:±2 kV</p> <p>CS:150 kHz ~ 80 MHz</p> <p>MF:30 A/m</p> <p>V-DIP:(0 ~ 100) %</p> <p>TI : -600 ~ 200V</p> <p>PMF:10 kHz ~ 13.56 MHz</p> | BS | N |
| IEC 60601-2-5:2009 | Medical devices | <p>Medical electrical equipment – Part 2-5: Particular requirements for the basic safety and essential performance of ultrasonic physiotherapy equipment</p> <p>201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS</p> <p>202 Electromagnetic compatibility – Requirements and tests</p> | <p>RE:30 MHz ~ 18 GHz</p> <p>CE:9 kHz ~ 30 MHz</p> <p>Harmonics: below 16 A</p> <p>Flicker: below 16 A</p> <p>ESD:±15 kV(Air) ±8 kV(Contact)</p> <p>RS:80 MHz ~ 6 GHz</p> <p>EFT:±2 kV</p> <p>SURGE:±2 kV</p> <p>CS:150 kHz ~ 80 MHz</p> <p>MF:30 A/m</p> <p>V-DIP:(0 ~ 100) %</p> <p>TI : -600 ~ 200V</p> <p>PMF:10 kHz ~ 13.56 MHz</p> | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|--------------------|---|--|------|---------------|
| IEC 60601-2-2:2017+AMD1:2023 | Medical devices | 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 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic compatibility – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |
| IEC 60601-2-4:2010+AMD1:2018 | Medical devices | Medical electrical equipment – Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic compatibility – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---|-------------------------------------|---|--|------|---------------|
| IEC 60601-2-43:2010+AMD1:2017+AMD2:2019 | Medical devices | Medical electrical equipment – Part 2-43: Particular requirements for the basic safety and essential performance of X-ray equipment for interventional procedures 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic disturbances – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V PMF:10 kHz ~ 13.56 MHz | BS | N |
| MIL-STD-461G:2015 | Electrical machinery for Industries | REQUIREMENTS FOR THE CONTROL OF ELECTROMAGNETIC INTERFERENCE CHARACTERISTICS OF SUBSYSTEMS AND EQUIPMENT [exception] 5.11 CS109, 5.15 CS117, 5.19 RE103, 5.21 RS103(2 MHz to 100 MHz, 200 V/m), 5.22 RS105 | RE:30 Hz 18 GHz CE:30 Hz 40 GHz RS:30 Hz 40 GHz CS:30 Hz 20 GHz CS118: ±15 kV | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|--------------------------------------|--|---|------|---------------|
| KS X 3125:2020 | Wired/wireless communication devices | EMC test methods for specific low power radio equipment | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| KS C 9610-6-1:2019 | Electrical machinery for households | Electromagnetic compatibility(EMC) - Part 6-1:Generic standards - Immunity for residential, commercial and light-industrial environments | ESD:±8 kV(Air), ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz M/F:3 A/m V-DIP:(0 ~ 100) % | BS | N |
| KS C 9610-6-2:2019 | Electrical machinery for Industries | Electromagnetic compatibility (EMC) - Part 6-2:Generic standards - Immunity for industrial environments | ESD:±8 kV(Air), ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz M/F:30 A/m V-DIP:(0 ~ 100) % | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------|---|--|--|------|---------------|
| EN IEC 61326-2-1:2021 | Electrical machinery for Industries | 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 | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:≤30 A/m V-DIP:(0 100) % | BS | N |
| EN IEC 61326-1:2021 | Electrical machinery for Industries | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements [exception] IEC 61000-3-11:2017 IEC 61000-3-12:2011 | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:≤30 A/m V-DIP:(0 100) % | BS | N |
| EN 55011:2016 +A2:2021 | Electrical machinery for households, Electrical machinery for Industries | Industrial, scientific and medical equipment — Radio-frequency disturbance characteristics — Limits and methods of measurement | RE:9 kHz 18 GHz, CE:9 kHz 30 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|-------------------------------------|---|--|------|---------------|
| EN 50155:2017 | Electrical machinery for Industries | Railway applications - Rolling stock - Electronic equipment 13.4.8 Electromagnetic compatibility test | RE : 30 MHz ~ 6 GHz CE : 150 kHz ~ 30 MHz CS : 150 kHz ~ 80 MHz EFT : ±2 kV SURGE : ±1 kV, ±2 kV RS : 80 MHz ~ 6 GHz ESD:±8 kV(Air) ±4 kV(Contact) | BS | N |
| EN 50130-4:2011 +A1:2014 | Electrical machinery for Industries | 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) ±6 kV(Contact) RS:80 MHz 2.7 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 100 MHz V-DIP:(0 100) % | BS | N |
| EN 60601-1-2:2007 | Medical devices | 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 CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±6 kV(Contact) RS:80 MHz ~ 2.5 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:3 A/m V-DIP:(0 ~ 100) % | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|---|--|--|------|---------------|
| EN 60601-2-24:2015 | Medical devices | Medical electrical equipment – Part 2-24:Particular requirements for the basic safety and essential performance of infusion pumps and controllers <Accept Only> 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic compatibility – Requirements and tests | RE:30 MHz ~ 18 GHz CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI : -600 ~ 200V | BS | N |
| IEEE Std 299:2006 | Electrical machinery for households, Electrical machinery for Industries | IEEE Standard Method for Measuring the Effectiveness of Electromagnetic Shielding Enclosures | Measurement frequency:9 kHz ~ 18 GHz | BS | Y |
| IEC 61000-4-3:2020 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) - Part 4-3:Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test | RS:80 MHz 6 GHz | BS | Y |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------------|--------------------------------------|--|--|------|---------------|
| KS C IEC 60947-4-1:2022 | Industrial electrical appliances | Low-voltage switchgear and controlgear – Part 4-1: Contactors and motor-starters – Electromechanical contactors and motor-starters | RE:30 MHz 1 GHz CE:150 kHz 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 2.7 GHz EFT:±4 kV SURGE:±4 kV CS:150 kHz 80 MHz V-DIP:(0 100) % MF:30 A/m | BS | N |
| AS/NZS CISPR 32:2015 Amd 1:2020 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment -Emission Requirements | RE:30 MHz ~ 6 GHz, CE:150 kHz ~ 30 MHz Differential voltage:30 MHz ~ 2 150 MHz | BS | N |
| SANS 61547:2012 | Lighting devices | Equipment for general lighting purposes – EMC immunity requirements | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 1 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:3 A/m V-DIP:(0 100) % | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|---|---|---|------|---------------|
| ETSI EN 301 489-19 V2.1.1:2019 | Wired/wireless communication devices | 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 CE: 150 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD: ±8 kV (Air) ±4 kV (Contact) RS: 80 MHz ~ 6 GHz EFT: ±1 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz V-DIP: (0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| KS C 9610-3-2:2023 | Household electrical appliances, Industrial electrical appliances | Electromagnetic compatibility (EMC) - Part 3-2: Limit for harmonics current emissions (equipment input current up to and including 16 A per phase) | below 16 A | BS | N |
| IEC 61000-6-2:2016 | Electrical machinery for Industries | Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments | ESD: ±8 kV (Air) ±4 kV (Contact) RS: 80 MHz ~ 6 GHz EFT: ±2 kV SURGE: ±2 kV CS: 150 kHz ~ 80 MHz M/F: 30 A/m V-DIP: (0 ~ 100) % | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------|--|---|---|------|---------------|
| KS C 9811:2019 | Electrical machinery for industries, Medical devices | Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement [exception] 7.6.10 Power converter for solar power generation (Above16A equipment and 3 phase connection equipment) | RE:9 kHz ~ 18 GHz CE:9 kHz 30 MHz | BS | N |
| CISPR 14-2:2020 | Electrical machinery for households | Electromagnetic compatibility — Requirements for household appliances, electric tools and similar apparatus — Part 2:Immunity – Product family standard | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 230 MHz V-DIP:(0 100) % | BS | N |
| IEC 62236-4:2018 | Electrical machinery for Industries | Railway applications - Electromagnetic compatibility - Part 4: Emission and immunity of the signalling and telecommunications apparatus | RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD: ±6 kV(Contact discharge), ±8 kV(Air discharge) RS: 80 MHz ~ 6 GHz Magnetic field: ≤300 A/m CS: 150 kHz ~ 80 MHz EFT: ±2 kV SURGE: ±2 Kv | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------|--------------------------------------|---|---|------|---------------|
| KS C 9835:2019 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment - Immunity Requirements | ESD:±8 kV(Air), ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±4 kV CS:150 kHz ~ 80 MHz MF:60 Hz, 1 A/m V-DIP:(0 ~ 100) % | BS | N |
| KS C 9040-2:2017 | Electrical machinery for Industries | Uninterruptible power systems (UPS) - Part 2:Electromagnetic compatibility (EMC) requirements | RE:30 MHz ~ 1 GHz, CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 1 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz M/F:30 A/m | BS | N |
| KS X 3139:2024 | Wired/wireless communication devices | EMC Test Methods for Mobile Satellite Service Equipment Wall Probing Radar Equipment | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------|--------------------------------------|--|---|------|---------------|
| KS X 3137:2024 | Wired/wireless communication devices | EMC Test Methods for Radio Paging Equipment | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| KS X 3136:2024 | Wired/wireless communication devices | EMC Test Methods for Amateur Radio Station Equipment | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| KS X 3134:2024 | Wired/wireless communication devices | EMC Test Methods for Implantable Radio Equipment | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±6 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------|--------------------------------------|--|---|------|---------------|
| KS X 3131:2024 | Wired/wireless communication devices | EMC Test Methods for Citizens' Band(CB) Radio Equipment | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| KS X 3130:2024 | Wired/wireless communication devices | EMC Test Methods for Specific Low Power Radio Equipment for Transmission of Audio and Sound Signal | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| KS X 3128:2024 | Wired/wireless communication devices | EMC Test Methods for Digital Cordless Phone | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------|--------------------------------------|---|---|------|---------------|
| KS X 3127:2024 | Wired/wireless communication devices | EMC test methods for Simple Radio Station Equipment and TETRA | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| KS X 3126:2024 | Wired/wireless communication devices | EMC test methods for specific low power radio equipment for wireless data communication systems | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| KS X 3125:2024 | Wired/wireless communication devices | EMC test methods for specific low power radio equipment | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|--------------------------------------|---|---|------|---------------|
| KS X 3124:2024 | Wired/wireless communication devices | Common EMC test methods for radio equipment | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V 12 V, 24 V SYSTEM (ISO 7637-2) | BS | N |
| ETSI EN 301 489-52 V1.3.1:2024 | Wired/wireless communication devices | 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 CE:150 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|--------------------------------------|---|---|------|---------------|
| ETSI EN 301 489-17 V3.3.1:2024 | Wired/wireless communication devices | 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 CE:150 kHz 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % 12 V, 24 V SYSTEM(ISO 7637-2) | BS | N |
| ISO 7637-3:2016 | Wired/wireless communication devices | 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, | BS | N |
| VCCI-CISPR 32:2016 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment - Emission Requirements | RE:30 MHz 6 GHz, CE:150 kHz 30 MHz Differential voltage: 30 MHz 2 150 MHz | BS | N |
| KS X 3131:2014 | Wired/wireless communication devices | EMC Test Methods for Citizens' Band(CB) Radio Equipment | RE:30 MHz 6 GHz CE:150 kHz 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % TI: -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|--------------------------------------|--|---|------|---------------|
| KS C IEC 62236-3-2:2018 | Electrical machinery for Industries | Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock - Apparatus | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±6 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±4 kV CS:150 kHz 80 MHz | BS | N |
| KS X 3137:2014 | Wired/wireless communication devices | EMC Test Methods for Radio Paging Equipment | RE:30 MHz 6 GHz CE:150 kHz 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % TI: -600 V ~ 200 V | BS | N |
| KS X 3126:2020 | Wired/wireless communication devices | EMC test methods for specific low power radio equipment for wireless data communication systems | RE:30 MHz 6 GHz CE:150 kHz 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % TI: -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|--------------------------------------|---|--|------|---------------|
| KS X 3124:2020 | Wired/wireless communication devices | Common EMC test methods for radio equipment | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V 12 V, 24 V SYSTEM (ISO 7637-2) | BS | N |
| EN 55032:2015+A11:2020 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment - Emission Requirements | RE:30 MHz ~ 6 GHz, CE:150 kHz ~ 30 MHz Differential voltage:30 MHz ~ 2 150 MHz | BS | N |
| EN 55032:2015 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment - Emission Requirements | RE:30 MHz ~ 6 GHz, CE:150 kHz ~ 30 MHz Differential voltage:30 MHz ~ 2 150 MHz | BS | N |
| EN 55024:2010 | Wired/wireless communication devices | Information technology equipment - Immunity characteristics - Limits and methods of measurement | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 1 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz M/F:1 A/m V-DIP:(0 ~ 100) % | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------------|--------------------------------------|--|---|------|---------------|
| ECE Regulation No.10 Revision 6:2019 | Wired/wireless communication devices | Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility. Annex 7 - Method of measurement of radiated broadband electromagnetic emissions from electrical/electronic sub-assemblies (ESAs) Annex 8 - Method of measurement of radiated narrowband electromagnetic emissions from electrical/electronic sub-assemblies Annex 9 – Method(s) of testing for immunity of electrical/electronic sub-assemblies to electromagnetic radiation [exception] 1.2.1(b) TEM cell 1.2.1(d) Stripline 1.2.1(e) 800 mm stripline | RE:30 MHz 1 GHz ALSE:80 MHz 2 GHz BCI:20 MHz 400 MHz TI: - 600 V ~ 200 V TE:12 V, 24 V System | BS | N |
| KS X 3136:2014 | Wired/wireless communication devices | EMC Test Methods for Amateur Radio Station Equipment | RE:30 MHz 6 GHz CE:150 kHz 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % TI: -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------------|--------------------------------------|---|---|------|---------------|
| KS C 9610-6-4:2022 | Electrical machinery for Industries | Electromagnetic compatibility (EMC) — Part 6-4:Generic standards — Emission standard for industrial environments | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz DCE:150 kHz~30 MHz | BS | N |
| ETSI EN 301 489-34 V2.1.1:2019 | Wired/wireless communication devices | Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 34:Specific conditions for External Power Supply (EPS) for mobile phones; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| SANS 61000-6-2:2005 | Electrical machinery for Industries | 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) ±4 kV(Contact) RS:80 MHz ~ 2.7 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz M/F:30 A/m V-DIP:(0 ~ 100) % | BS | N |
| EN IEC 55015:2019+A11:2020 | Lighting devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|--|--|---|------|---------------|
| ETSI EN 301 489-50 V2.3.1:2021 | Wired/wireless communication devices | 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 CE:150 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| ANSI C63.4a:2017 | Electrical machinery for households, Electrical machinery for Industries | 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 Amendment 1: Test Site Validation | 9 kHz ~ 40 GHz | BS | Y |
| EN 50121-3-2:2016+A1:2019 | Electrical machinery for Industries | Railway applications - Electromagnetic compatibility Part3-2:Rolling stock - Apparatus [exception] [Table 1] Emission 1.2 AC Power outlet port for public use | RE : 30 MHz ~ 6 GHz CE : 150 kHz~ 30 MHz CS : 150 kHz ~ 80 MHz EFT : ±2 kV SURGE : ±1 kV, ±2 kV RS : 80 MHz ~ 6 GHz ESD:±8 kV(Air) ±4 kV(Contact) | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|--------------------------------------|--|---|------|---------------|
| KS C IEC 62236-4:2018 | Electrical machinery for Industries | Railway applications - Electromagnetic compatibility - Part 4: Emission and immunity of the signalling and telecommunications apparatus | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±6 kV(Contact) RS:80 MHz ~ 6GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:100 A/m Impulse MF:300 A/m | BS | N |
| EN 55015:2019 | Lighting devices | 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 | BS | N |
| EN 61000-3-3:2013 | Electrical machinery for households | 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 | BS | N |
| CAN/CSA-CISPR 32:17(R2022)/A1: 24 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment -Emission Requirements | RE:30 MHz 6 GHz, CE:150 kHz 30 MHz Differential voltage:30 MHz 2 150 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|--|--|---|------|---------------|
| KS X 3130:2014 | Wired/wireless communication devices | EMC Test Methods for Specific Low Power Radio Equipment for Transmission of Audio and Sound Signal | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| MIL-STD-462D:1993 | Electrical machinery for Industries | Measurement of electromagnetic interference characteristics [exception] CS109, RE103 RS105 | RE:30 Hz ~ 18 GHz CE:30 Hz ~ 40 GHz RS:30 Hz ~ 40 GHz CS:30 Hz ~ 20 GHz | BS | N |
| MIL-STD-704F:2016 | Industrial electrical appliances | DEPARTMENT OF DEFENSE INTERFACE STANDARD AIRCRAFT ELECTRIC POWER CHARACTERISTICS | SAC:400 Hz, 115 V TAC:400 Hz, 115 V SVF, TVF:Variable Frequency, 115 V SXF:60 Hz, 115 V LDC:DC 28 V HDC:DC 270 V | BS | N |
| KS C 9610-4-6:2020 | Electrical machinery for households, Electrical machinery for Industries | Test method of Immunity to conducted disturbances, induced by radiofrequency fields | CS:150 kHz ~ 230 MHz, | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------------------------|---|---|------|---------------|
| ETSI EN 301 489-4 V3.3.1:2021 | Wired/wireless communication devices | ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment; Harmonised Standard for ElectroMagnetic Compatibility | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| EN 55035:2017 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment – Immunity Requirements [exception] Table 2 – Immunity requirements for analogue/digital data ports: 2.2 Broadband impulse noise disturbances repetitive 2.3 Broadband impulse noise disturbances, isolated | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6.0 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz M/F:1 A/m V-DIP:(0 ~ 100) % | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|--|---|---------------------------------------|------|---------------|
| MIL-STD-188-125-2:1999 | Household electrical appliances, Industrial electrical appliances | HIGH-ALTITUDE ELECTROMAGNETIC PULSE (HEMP) PROTECTION FOR GROUND-BASED C4I FACILITIES PERFORMING CRITICAL, TIME-URGENT MISSIONS PART 2 TRANSPORTABLE SYSTEMS [Exception] Appendix B PULSED CURRENT INJECTION (PCI) TEST PROCEDURES | Measurement frequency: 10 kHz ~ 1 GHz | BS | Y |
| SANS 215:2019 | lighting equipment | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------------|--------------------------------------|---|---|------|---------------|
| KS C IEC 60601-1-2:2020 | Medical electrical equipment | 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 CE:9 kHz ~ 30 MHz Harmonics:16 A 이하 Flicker:16 A 이하 ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI:-600 V ~ 200 V PMF:10 kHz ~ 13.56 MHz | BS | N |
| SANS 214-2:2009 | Household electrical appliances | Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus Part 2:Immunity – Product family standard | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 1 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 230 MHz V-DIP:(0 100) % | BS | N |
| ETSI EN 301 489-6 V2.2.1:2019 | Wired/wireless communication devices | 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 CE:150 kHz 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % TI: -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|--------------------------------------|---|---|------|---------------|
| ETSI EN 301 489-17 V3.2.4:2020 | Wired/wireless communication devices | 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 CE:150 kHz 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % 12 V, 24 V SYSTEM(ISO 7637-2) | BS | N |
| EN IEC 61000-6-4:2019 | Electrical machinery for Industries | Electromagnetic compatibility (EMC) — Part 6-4: Generic standards — Emission standard for industrial environments | RE:30 MHz 6 GHz CE:150 kHz 30 MHz DCE:150 kHz 30 MHz Harmonics: below 16 A Flicker: below 16 A | BS | N |
| ETSI EN 301 489-52 V1.2.1:2021 | Wired/wireless communication devices | 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 CE:150 kHz 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % TI: -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|--|---|---|------|---------------|
| IEC 61000-4-39 : 2017 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) – Part 4-39: Testing and measurement techniques – Radiated fields in close proximity – Immunity test | PMF: 10 kHz ~ 13.56 MHz | BS | N |
| IEC 61326-1:2020 | Electrical machinery for Industries | Electrical equipment for measurement, control and laboratory use – EMC requirements Part 1:General requirements [exception] IEC 61000-3-11:2017 IEC 61000-3-12:2011 | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:30 A/m V-DIP:(0 100) % | BS | N |
| SANS 61000-3-3:2009 | Electrical machinery for households | 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 | BS | N |
| ICES-003 Issue 7:2020 | Electrical machinery for households, Electrical machinery for Industries | Information Technology Equipment (including Digital Apparatus) | RE:30 MHz 6 GHz, CE:150 kHz 30 MHz Disturbance Voltage:9 kHz 2.15 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--|---|---|--|------|---------------|
| KS C 9610-3-3:2023 | Household electrical appliances, Industrial electrical appliances | 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 | below 16 A | BS | N |
| KS C 9610-4-3:2017 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) - Part 4-3:Testing and measurement techniques - Radiated, radio – frequency, electromagnetic field | RS:80 MHz ~ 6 GHz | BS | Y |
| EN 60601-1-2: 2015 | Medical devices | 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 CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD: ± 15 kV(Air) ± 8 kV(Contact) RS:80 MHz ~ 6 GHz EFT: ± 2 kV SURGE: ± 2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI:-600 V ~ 200 V | BS | N |
| IEC 61000-3-2:2018+AMD1:2020+AMD2:2024 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) | below 16 A | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|--|--|---|------|---------------|
| CISPR 32:2015+A MD1:2019 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment - Emission Requirements | RE:30 MHz 6 GHz, CE:150 kHz 30 MHz Differential voltage:30 MHz 2 150 MHz | BS | N |
| KS C 9610-4-5:2023 | Household electrical appliances, Industrial electrical appliances | Electromagnetic compatibility (EMC) – Part 4-5:Testing and measurement techniques – Surge immunity test | SURGE: below ± 6 kV | BS | N |
| KS C IEC 60947-1:2017 | Industrial electrical appliances | Low-voltage switchgear and control gear -Part 1:General rules | RE:30 MHz 1 GHz CE:150 kHz 30 MHz ESD: ± 8 kV(Air) ± 4 kV(Contact) RS:80 MHz 2.7 GHz EFT: ± 2 kV SURGE: ± 2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % MF:30 A/m | BS | N |
| EN IEC 61000-4-3:2020 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) – Part 4-3:Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test | RS:80 MHz 6 GHz | BS | Y |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--|--|---|------|---------------|
| ETSI EN 301 489-5 V2.2.1:2019 | Wired/wireless communication devices | 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 CE:150 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| KS C 9610-4-8:2017 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility(EMC) - Part 4-8:Testing and measurement techniques- Power frequency magnetic field immunity test | MF: below 100 A/m | BS | N |
| ISO 11452-4:2020 | Wired/wireless communication devices | Road Vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 4:Harness excitation methods [exception] 6.2 TWC Test Method | 100 kHz ~ 400 MHz | SF-2 | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60601-1-2:2014+AMD1:2020 CSV | Medical devices | 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 CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI:-600 V ~ 200 V PMF:10 kHz ~ 13.56 MHz | BS | N |
| IEC 61326-2-1:2020 | Electrical machinery for Industries | 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) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:30 A/m V-DIP:(0 100) % | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------|--|---|--|------|---------------|
| EN 61000-3-3:2013+A1:2019 | Electrical machinery for households | 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 | BS | N |
| EN 61000-4-5:2014+A1:2017 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) — Part 4-5: Testing and measurement techniques— Electrostatic discharge immunity test | SURGE: below ± 6 kV | BS | N |
| EN 61000-4-6:2014 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility(EMC) - Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields | CS:150 kHz 230 MHz | BS | N |
| KS X 3135:2020 | Wired/wireless communication devices | EMC test methods for cellular communication base station, repeater and ancillary equipment | RE:30 MHz 6 GHz CE:150 kHz 30 MHz ESD: ± 8 kV(Air) ± 4 kV(Contact) RS:80 MHz 6 GHz EFT: ± 1 kV SURGE: ± 2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % TI: -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|-------------------------------------|---|--|------|---------------|
| EN 55013 : 2013+A1:2016 | Electrical machinery for households | Sound and television broadcast receivers and associated equipment – Radio disturbance characteristics – Limits and methods of measurement | RE:30 MHz 6 GHz, CE:150 kHz 30 MHz Differential voltage:30 MHz 2 150 MHz | BS | N |
| EN 55014-1:2017 | Electrical machinery for households | Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus Part 1:Emission | RE:9 kHz 1 GHz, CE:9 kHz 30 MHz DCE:150 kHz30 MHz Disturbance Power: 30 MHz 300 MHz | BS | N |
| EN 55014-1:2017 +A11:2020 | Electrical machinery for households | Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus Part 1:Emission | RE:9 kHz 1 GHz, CE:9 kHz 30 MHz DCE:150 kHz30 MHz Disturbance Power: 30 MHz 300 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------|--------------------------------------|---|---|------|---------------|
| SANS 225:2019 | Wired/wireless communication devices | <p>Vehicles, boats and internal combustion engines – Radio disturbance characteristics – Limits and methods of measurement for the protection of on-board receivers.</p> <p>[exception]</p> <p>5 Measurement of emissions received by an antenna on the same vehicle</p> <p>6.6 Radiated emissions from components/modules. TEM cell method</p> <p>6.7 Radiated emissions from components/module. Strip line method</p> | <p>RE:150 kHz ~ 2.5 GHz</p> <p>CE(VOLTAGE METHOD):150 kHz ~ 108 MHz</p> <p>CE(CURRENT METHOD):150 kHz ~ 245 MHz</p> | BS | Y |
| EN 60601-1-2:2015+A1:2021 | Medical devices | <p>Medical electrical equipment –Part 1-2:General requirements for basic safety and essential performance – Collateral Standard:Electromagnetic disturbances – Requirements and tests</p> | <p>RE:30 MHz ~ 18 GHz</p> <p>CE:9 kHz ~ 30 MHz</p> <p>Harmonics: below 16 A</p> <p>Flicker: below 16 A</p> <p>ESD:±15 kV(Air) ±8 kV(Contact)</p> <p>RS:80 MHz ~ 6 GHz</p> <p>EFT:±2 kV</p> <p>SURGE:±2 kV</p> <p>CS:150 kHz ~ 80 MHz</p> <p>MF:30 A/m</p> <p>V-DIP:(0 ~ 100) %</p> <p>TI:-600 V ~ 200 V</p> <p>PMF:10 kHz ~ 13.56 MHz</p> | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|--------------------------------------|---|---|------|---------------|
| EN 50121-4:2016 +A1:2019 | Electrical machinery for Industries | Railway applications-Electromagnetic compatibility Part4:Emission and immunity of the signalling and telecommunications apparatus | RE :30 MHz ~ 6 GHz CE :150 kHz ~ 30 MHz DCE : 150 kHz ~ 30 MHz ESD:±8 kV(Air) ±6 kV(Contact) RS:80 MHz 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F: 300 A/m | BS | N |
| SANS 224:2010 | Wired/wireless communication devices | Information technology equipment – Immunity characteristics – Limits and methods of measurement [exception] 3 phase connection equipment | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 1.0 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:1 A/m V-DIP:(0 100) % | BS | N |
| IEC 62040-2:2016 | Electrical machinery for households | 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 ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 1 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:30 A/m | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|--|---|---|------|---------------|
| KS X 3139:2014 | Wired/wireless communication devices | EMC Test Methods for Mobile Satellite Service Equipment Wall Probing Radar Equipment | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| CISPR 16-1-4:2019+AMD1:2020 | Electrical machinery for households, Electrical machinery for Industries | 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 | BS | Y |
| CISPR 25:2021 | Wired/wireless communication devices | 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 CE(VOLTAGE METHOD):150 kHz ~ 108 MHz CE(CURRENT METHOD):150 kHz ~ 245 MHz | BS | Y |
| CISPR 32:2015 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment - Emission Requirements | RE:30 MHz 6 GHz, CE:150 kHz 30 MHz Differential voltage:30 MHz 2 150 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|--|--|------|---------------|
| EN IEC 61547:2023 | Lighting devices | Equipment for general lighting purposes – EMC immunity requirements | ESD:±8 kV(Air) , ±4 kV(Contact) RS:80 MHz ~ 1 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz M/F:3 A/m V-DIP:(0 ~ 100) % | BS | N |
| EN 62040-2:2018 | Electrical machinery for households | 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 CE:150 kHz 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 1 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:≤ 30 A/m | BS | N |
| EN IEC 55014-1:2021 | Electrical machinery for households | Electromagnetic compatibility –Requirements for household appliances, electric tools and similar apparatus Part 1: Emission | RE:9 kHz 6 GHz, CE:9 kHz 30 MHz DCE:150 kHz30 MHz Disturbance Power: 30 MHz 300 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--|---|---|------|---------------|
| ETSI EN 301 489-9 V2.1.1:2019 | Wired/wireless communication devices | Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| KS C 9610-4-11:2020 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests [exception] above 16 A equipment | V-DIP:(0 ~ 100) % | BS | N |
| KS C 9610-4-2:2017 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test | ESD: below ±30 kV | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------|--------------------------------------|---|--|------|---------------|
| KS C 9995:2021 | Wired/wireless communication devices | 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, 24,05 GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz; | RE:30 MHz 6 GHz CE:150 kHz 30 MHz ESD:±8 kV(Air), ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % TI : - 600 V ~ 200 V | BS | N |
| CISPR 14-1:2020 | Electrical machinery for households | Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus Part 1:Emission | RE:9 kHz 6 GHz, CE:9 kHz 30 MHz DCE:150 kHz30 MHz Disturbance Power: 30 MHz 300 MHz | BS | N |
| SANS 61000-3-2:2009 | Electrical machinery for households | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase) | below 16 A | BS | N |
| KS C 9547:2020 | Lighting devices | Equipment for general lighting purposes – EMC immunity requirements | ESD:±8 kV(Air), ±4 kV(Contact) RS:80 MHz 1 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:3 A/m V-DIP:(0 100) % | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|--------------------------------------|---|---|------|---------------|
| KS C 9990:2017 | Wired/wireless communication devices | Electromagnetic compatibility of automobiles and internal combustion engines [exception] 6.5 Radiated emissions from components/modules. TEM cell method 6.6 Radiated emissions from components/module. Strip line method | Transitional conduction resistance voltage on the power line: - 600 V ~ 200 V RE:30 MHz ~ 1 GHz CE:0.15 MHz ~ 30 MHz Harmonic Current Emission: below 16 A Voltage Fluctuation and Flicker: below 16 A EFT:±2 kV RS:20 MHz 2 000 MHz SURGE:±2 kV | BS | N |
| MIL-STD-461E:1999 | Electrical machinery for Industries | Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment [exception] 5.11 CS109 5.17 RE103 5.19 RS103 (2 MHz to 100 MHz, 200 V/m) 5.20 RS105 | RE:30 Hz 18 GHz CE:30 Hz 40 GHz RS:30 Hz 40 GHz CS:30 Hz 20 GHz | BS | N |
| EN IEC 61000-6-1:2019 | Electrical machinery for households | Electromagnetic compatibility (EMC) - Part 6-1:Generic standards - Immunity for residential, commercial and light-industrial environments | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:30 A/m V-DIP:(0 100) % | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|--|---|--|------|---------------|
| CISPR 14-2:2015 | Electrical machinery for households | Electromagnetic compatibility — Requirements for household appliances, electric tools and similar apparatus — Part 2:Immunity – Product family standard | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 1 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 230 MHz V-DIP:(0 100) % | BS | N |
| IEC 61000-6-4:2018 | Electrical machinery for Industries | Electromagnetic compatibility (EMC) — Part 6-4:Generic standards — Emission standard for industrial environments | RE:30 MHz 6 GHz CE:150 kHz 30 MHz DCE:150 kHz 30 MHz Harmonics: below 16 A Flicker: below 16 A | BS | N |
| EN 55032:2015+ A1:2020 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment - Emission Requirements | RE:30 MHz 6 GHz, CE:150 kHz 30 MHz Differential voltage:30 MHz 2 150 MHz | BS | N |
| IEC 61000-4-11:2004+AMD1:2017 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests | V-DIP:(0 100) % | BS | N |
| IEC 61000-4-3:2006+AMD1+AMD2:2010 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test | RS:80 MHz 6 GHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|---|--|---|------|---------------|
| EN IEC 61000-3-2:2019+A1:2021 | Electrical machinery for households | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) | below 16 A | BS | N |
| IEC 61000-6-3:2020 | Electrical machinery for households | Electromagnetic compatibility (EMC)–Part 6-3:Generic standards – Emission standard for equipment in residential environments | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz DCE:150 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A | BS | N |
| EN IEC 55014-2:2021 | Electrical machinery for households | Electromagnetic compatibility — Requirements for household appliances, electric tools and similar apparatus — Part 2:Immunity – Product family standard | ESD: ± 8 kV(Air) ± 4 kV(Contact) RS:80 MHz ~ 6 GHz EFT: ± 1 kV SURGE: ± 2 kV CS:150 kHz ~ 230 MHz V-DIP:(0 ~ 100) % | BS | N |
| IEC 61000-4-4:2012 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) - Part 4-4:Testing and measurement techniques - Electrical fast transient/burst immunity test | EFT: below ± 4 kV | BS | N |
| IEC 61000-4-6:2023 | Household electrical appliances, Industrial electrical appliances | Electromagnetic compatibility(EMC) - Part 4-6:Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields | CS:150 kHz ~ 230 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|---|---|---|------|---------------|
| EN IEC 61000-6-2:2019 | Electrical machinery for Industries | Electromagnetic compatibility (EMC) - Part 6-2:Generic standards - Immunity for industrial environments | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:30 A/m V-DIP:(0 100) % | BS | N |
| KS X 3129:2020 | Wired/wireless communication devices | EMC Test Methods for Cellular Communication Mobile and Ancillary Equipment | RE:30 MHz 6 GHz CE:150 kHz 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % TI: -600 V ~ 200 V | BS | N |
| CISPR 14-1:2016 | Electrical machinery for households | Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus Part 1:Emission | RE:9 kHz 1 GHz, CE:9 kHz 30 MHz DCE:150 kHz30 MHz Disturbance Power: 30 MHz 300 MHz | BS | N |
| KS C 9610-4-4:2020 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) – Part 4-4:Testing and measurement techniques - Electrical fast transient/burst immunity test | EFT: below ±4 kV | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|--------------------------------------|---|---|------|---------------|
| ISO 10605:2008 | Wired/wireless communication devices | Road vehicles — Test methods for electrical disturbances from electrostatic discharge | ESD: below ± 25 kV(Air) below ± 25 kV(Contact) | SF-2 | N |
| IEC 62236-3-2:2018 | Electrical machinery for Industries | Electromagnetic compatibility - Part3-2: Rolling stock – Apparatus [exception] [Table 1] Emission | RE: 30 MHz ~ 6 GHz CE: 150 kHz ~ 30 MHz CS: 150 kHz ~ 80 MHz EFT: ± 2 kV Surge: ± 1 kV, ± 2 kV RS: 80 MHz ~ 6 GHz ESD: ± 6 kV(Contact discharge), ± 8 kV(Air discharge) | BS | N |
| EN 55014-2:2015 | Electrical machinery for households | Electromagnetic compatibility — Requirements for household appliances, electric tools and similar apparatus — Part 2:Immunity | ESD: ± 8 kV(Air) ± 4 kV(Contact) RS:80 MHz 1 GHz EFT: ± 1 kV SURGE: ± 2 kV CS:150 kHz 230 MHz V-DIP:(0 100) % | BS | N |
| KS C 9814-1:2022 | Electrical machinery for households | Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus Part 1:Emission | RE:9 kHz 6 GHz CE:9 kHz30 MHz DCE:150 kHz30 MHz Disturbance Power: 30 MHz 300 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|---|--|--|------|---------------|
| EN IEC 61000-3-2:2019 | Electrical machinery for households | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase) | below 16 A | BS | N |
| IEC 61000-6-1:2016 | Electrical machinery for households | Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity standard for residential, commercial and light-industrial environments | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:3 A/m V-DIP:(0 100) % | BS | N |
| IEC 61000-4-8:2009 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility(EMC) - Part 4-8:Testing and measurement techniques-Power frequency magnetic field immunity test | M/F: below 100 A/m | BS | N |
| IEC 61000-4-6:2013 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility(EMC) - Part 4-6:Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields | CS:150 kHz 230 MHz | BS | N |
| EN 55011:2016 +A11:2020 | Electrical machinery for households, Electrical machinery for Industries | Industrial, scientific and medical equipment — Radio-frequency disturbance characteristics — Limits and methods of measurement | RE:9 kHz 18 GHz, CE:9 kHz 30 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--|---|---|--|------|---------------|
| CISPR 13:2009+A MD1:2015 CSV | Wired/wireless communication devices | Sound and television broadcast receivers and associated equipment – Radio disturbance characteristics – Limits and methods of measurement | RE:30 MHz 6 GHz, CE:150 kHz 30 MHz Differential voltage:30 MHz 2 150 MHz | BS | N |
| CISPR 11:2015+A MD1:2016+AMD2: 2019 | Electrical machinery for industries, Medical devices | 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 | BS | N |
| IEC 61000-3-2:2005+AMD1:2008+AMD2:2009 | Electrical machinery for households Electrical machinery for Industrial | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase) | below 16 A | BS | N |
| IEC 61000-4-11:2020 | Electrical machinery for households, Electrical machinery for Industries | 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) % | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--|--|---|---|------|---------------|
| IEC 61000-3-3:2013+AMD1:2017+AMD2:2021 | Electrical machinery for households, Electrical machinery for Industries | 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 | BS | N |
| IEC 61000-3-2:2018+AMD1:2020 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) | below 16 A | BS | N |
| IEC 60601-2-24:2012 | Medical devices | Medical electrical equipment – Part 2-24: Particular requirements for the basic safety and essential performance of infusion pumps and controllers <Accept Only> 201.17 Electromagnetic compatibility of ME EQUIPMENT and ME SYSTEMS 202 Electromagnetic compatibility – Requirements and tests | RE: 30 MHz ~ 18 GHz CE: 9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD: ± 15 kV (Air) ± 8 kV (Contact) RS: 80 MHz ~ 6 GHz EFT: ± 2 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz MF: 30 A/m V-DIP: (0 ~ 100) % TI: -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|---|--|--|------|---------------|
| KS C 9814-2:2022 | Electrical machinery for households | Electromagnetic compatibility — Requirements for household appliances, electric tools and similar apparatus — Part 2:Immunity – Product family standard | ESD:±30 kV(Air) ±25 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 230 MHz V-DIP:(0 ~ 100) % | BS | N |
| KS C 9816-1-4:2020 | Electrical machinery for households, Electrical machinery for Industries | 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:30 MHz 18 GHz | BS | Y |
| IEC 61000-4-2:2008 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) - Part 4-2:Testing and measurement techniques - Electrostatic discharge immunity test | below ±30 kV | BS | N |
| IEC 61000-4-5:2014+AMD1:2017 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test | SURGE: below ±6 kV | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|-------------------------------------|--|--|------|---------------|
| IEC 61547:2020 | Lighting devices | Equipment for general lighting purposes – EMC immunity requirements | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 1 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:3 A/m V-DIP:(0 100) % | BS | N |
| IEC 61326-2-5:2020 | Electrical machinery for Industries | 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) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:≤30 A/m V-DIP:(0 100) % | BS | N |
| IEC 61326-2-4:2020 | Electrical machinery for Industries | 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) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:≤30 A/m V-DIP:(0 100) % | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|-------------------------------------|--|--|------|---------------|
| IEC 61326-2-3:2020 | Electrical machinery for Industries | 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) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:30 A/m V-DIP:(0 100) % | BS | N |
| IEC 61326-2-2:2020 | Electrical machinery for Industries | 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) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:30 A/m V-DIP:(0 100) % | BS | N |
| IEC 60601-1-2:2007 | Medical devices | 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 CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±6 kV(Contact) RS:80 MHz ~ 2.5 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:3 A/m V-DIP:(0 ~ 100) % | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------------|--------------------------------------|--|---|------|---------------|
| IEC 60601-1-2:2014 | Medical devices | 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 CE:9 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±15 kV(Air) ±8 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz MF:30 A/m V-DIP:(0 ~ 100) % TI:-600 V ~ 200 V | BS | N |
| EN 55035:2017+ A11:2020 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment – Immunity Requirements [exception] Table 2 – Immunity requirements for analogue/digital data ports: 2.2 Broadband impulse noise disturbances repetitive 2.3 Broadband impulse noise disturbances, isolated | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6.0 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:1 A/m V-DIP:(0 100) % | BS | N |
| CAN/CSA-CISPR 32:17 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment -Emission Requirements | RE:30 MHz 6 GHz, CE:150 kHz 30 MHz Differential voltage:30 MHz 2 150 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------|--|--|--|------|---------------|
| EN 61000-4-5:2014 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) — Part 4-5: Testing and measurement techniques— Electrostatic discharge immunity test | SURGE: below ± 6 kV | BS | N |
| ISO 7637-2:2011 | Wired/wireless communication devices | Road vehicles — Electrical disturbances from conduction and coupling — Part 2: Electrical transient conduction along supply lines only | TI: - 600 V ~ 200 V | BS | N |
| ISO 11452-2:2019 | Wired/wireless communication devices | Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 2: Absorber-lined shielded enclosure | 20 MHz ~ 6 GHz | SF-2 | N |
| KS C IEC 60601-1-2:2014 | Medical devices | Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance – Collateral standard: Electromagnetic compatibility - Requirements and tests | ESD: ± 8 kV(Air) ± 4 kV(Contact) RS: 80 MHz ~ 2.5 GHz EFT: ± 2 kV SURGE: ± 2 kV CS: 150 kHz ~ 80 MHz V-DIP: (0 ~ 100) % MF: 3 A/m | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|---|--|---|------|---------------|
| QCVN 112:2017/BTTTT | Wired/wireless communication devices | National technical regulation on general electromagnetic compatibility for radio broadband data transmission equipment | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % 12 V, 24V SYSTEM(ISO 7637-2) | BS | N |
| ANSI C63.25.1-2018 | Electrical machinery for households, Electrical machinery for Industries | American National Standard Validation Methods for Radiated Emission Test Sites, 1 GHz to 18 GHz | 1 GHz ~ 18 GHz | BS | Y |
| ANSI/USEMCSC C63.25.2:2024 | Electrical machinery for households, Electrical machinery for Industries | American National Standard for Validation Methods for Radiated Emission Test Sites, 30 MHz to 1 GHz | 30 MHz ~ 1 GHz | BS | Y |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|--------------------------------------|---|---|------|---------------|
| ETSI EN 301 489-5 V2.3.1:2025 | Wired/wireless communication devices | 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 for ElectroMagnetic Compatibility | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| ETSI EN 301 489-50 V2.4.1:2025 | Wired/wireless communication devices | 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 CE:150 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|--------------------------------------|---|--|------|---------------|
| QCVN 18:2022/BTTTT | Wired/wireless communication devices | National technical regulation on Electromagnetic Compatibility for Radio Communications Equipment | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI : -600 V ~ 200 V 12 V, 24V SYSTEM(ISO 7637-2) | BS | N |
| QCVN 86:2019/BTTTT | Wired/wireless communication devices | National technical regulation on electromagnetic compatibility for mobile terminals and ancillary equipment of digital cellular telecommunication systems | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI : -600 V ~ 200 V | BS | N |
| QCVN 96:2015/BTTTT | Wired/wireless communication devices | National technical regulation on electromagnetic compatibility for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI : -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------|--------------------------------------|---|--|------|---------------|
| QCVN 118:2018/BTTTT | Wired/wireless communication devices | National technical regulation on Electromagnetic compatibility of multimedia equipment - Emission requirements | RE:30 MHz ~ 6 GHz, CE:150 kHz ~ 30 MHz Disturbance Voltage:30 MHz ~ 2150 MHz | BS | N |
| QCVN 103:2016/BTTTT | Wired/wireless communication devices | National technical regulation on electromagnetic compatibility for Base Station, Repeater, ancillary equipment of digital cellular telecommunications systems GSM, W-CDMA FDD and LTE | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI : -600 V ~ 200 V | BS | N |
| KS X 3132:2014 | Wired/wireless communication devices | EMC Test Methods for Trunked Radio System(TRS) Equipment | RE:30 MHz 6 GHz CE:150 kHz 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % TI: -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|--------------------------------------|---|--|------|---------------|
| EN IEC 61326-2-3:2021 | Electrical machinery for Industries | 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) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:≤30 A/m V-DIP:(0 100) % | BS | N |
| EN IEC 61326-2-4:2021 | Electrical machinery for Industries | 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 IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9 | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:≤30 A/m V-DIP:(0 100) % | BS | N |
| ISO 7637-2:2011 | Wired/wireless communication devices | Road vehicles — Electrical disturbances from conduction and coupling — Part 2:Electrical transient conduction along supply lines only | TI : - 600 V ~ 200 V | SF-2 | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--|---|--|------|---------------|
| ISO 7637-3:2016 | Wired/wireless communication devices | 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 | SF-2 | N |
| SANS 61000-4-2:2009 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC)- Part 4-2:Testing and measurement techniques- Electrostatic discharge immunity test | below ± 30 kV | BS | N |
| SANS 61000-4-3:2008 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) – Part 4-3:Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test | RS:80 MHz 6 GHz | BS | N |
| ETSI EN 301 489-2 V2.1.1:2019 | Wired/wireless communication devices | 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 CE:150 kHz 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD: ± 8 kV(Air) ± 4 kV(Contact) RS:80 MHz 6 GHz EFT: ± 1 kV SURGE: ± 2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % TI: -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------------|--|--|---|------|---------------|
| ETSI EN 301 489-20 V2.2.1 (2021-11) | Wired/wireless communication devices | 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 CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| ETSI EN 301 489-3 V2.3.2 (2023-01) | Wired/wireless communication devices | 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 CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| EN 61000-4-39 : 2017 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) – Part 4-39: Testing and measurement techniques – Radiated fields in close proximity – Immunity test | PMF: 10 kHz ~ 13.56 MHz | BS | N |

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|--------------------------------|--------------------------------------|--|---|------|---------------|
| KS X 3128:2014 | Wired/wireless communication devices | EMC Test Methods for Digital Cordless Phone | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| ETSI EN 301 489-51 V2.1.1:2019 | Wired/wireless communication devices | 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 CE:150 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| ISO 16750-2:2012 | Wired/wireless communication devices | Road vehicles — Environmental conditions and testing for electrical and electronic equipment — Part2:Electrical loads | Power voltage: 0 V ~ 230 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------|--|--|---|------|---------------|
| ISO 11452-9:2021 | Wired/wireless communication devices | Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy Part 9: Portable transmitters | 26 MHz ~ 5 850 MHz | BS | N |
| CISPR 25:2021 | Wired/wireless communication devices | Vehicle, boats and internal combustion engines – Radio disturbances characteristics – Limits and methods of measurement for the protection of on-board receivers. [exception] 5.4 Test setup of vehicle in charging mode 5.5 Example of limits for vehicle radiated disturbances Annex A, B, C, D, E, F, H | RE: 150 kHz ~ 2.5 GHz CE(Voltage method): 150 kHz ~ 108 MHz CE(Current method): 150 kHz ~ 245 MHz | SF-2 | N |
| CSA CISPR 11 : 19 | Electrical machinery for industries, Medical devices | Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement | RE: 9 kHz ~ 18 GHz, CE: 9 kHz ~ 30 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------|--|--|---|------|---------------|
| CISPR 35:2016 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment – Immunity requirements [exception] Table 2 – Immunity requirements for analogue/digital data ports: 2.2 Broadband impulse noise disturbances repetitive 2.3 Broadband impulse noise disturbances, isolated | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6.0 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:1 A/m V-DIP:(0 100) % | BS | N |
| KS X 3127:2014 | Wired/wireless communication devices | EMC test methods for Simple Radio Station Equipment | RE:30 MHz 6 GHz CE:150 kHz 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % TI: -600 V ~ 200 V | BS | N |
| CISPR 11:2024 | Electrical machinery for industries, Medical devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--|--|---|--|------|---------------|
| 47 CFR PART 15 Subpart B:2022 | Electrical machinery for households, Electrical machinery for Industries | Unintentional Radiators | RE:9 kHz 40 GHz, CE:9 kHz 30 MHz | BS | N |
| AS/NZS CISPR 32:2015 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment -Emission Requirements | RE:30 MHz ~ 6 GHz, CE:150 kHz ~ 30 MHz Differential voltage:30 MHz ~ 2 150 MHz | BS | N |
| KS C 9610-6-3:2023 | Electrical machinery for households | Electromagnetic compatibility (EMC)–Part 6-3:Generic standards – Emission standard for residential,commercial and light-industrial environments | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz DCE:150 kHz30 MHz | BS | N |
| EN 61000-4-3:2006 +A1:2008 +A2:2010 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) - Part 4-3:Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test | RS:80 MHz 6 GHz | BS | Y |
| CISPR 16-1-4:2019+AMD1:2020+A MD2:2023 | Electrical machinery for households, Electrical machinery for Industries | 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 | BS | Y |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|--|---|--|------|---------------|
| MIL-STD-461F:2007 | Electrical machinery for Industries | Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment [exception] 5.12 CS109 5.18 RE103 5.20 RS103 (2 MHz to 100 MHz, 200 V/m) 5.21 RS105 | RE:30 Hz 18 GHz CE:30 Hz 40 GHz RS:30 Hz 40 GHz CS:30 Hz 20 GHz | BS | N |
| EN 61000-4-8:2010 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) Part 4-8:Testing and measurement techniques — Power frequency magnetic field immunity test | M/F: below 100 A/m | BS | N |
| MIL-STD-461D:1993 | Electrical machinery for Industries | Requirements for the Control of Electromagnetic Interference emissions and susceptibility [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 CE:30 Hz 40 GHz RS:30 Hz 40 GHz CS:30 Hz 20 GHz | BS | N |
| SANS 61000-4-11:2005 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility(EMC) - Part 4-11:Testing and measurement techniques-Voltage dips, short interruptions and voltage variations immunity tests | V-DIP:(0 100) % | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|---|--|-----------------------|------|---------------|
| EN 61000-4-2:2009 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC)- Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test | below ± 30 kV | BS | N |
| SANS 61000-4-8:2009 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility(EMC) - Part 4-8: Testing and measurement techniques-Power frequency magnetic field immunity test | M/F: below 100 A/m | BS | N |
| SANS 61000-4-6:2017 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility(EMC) - Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields | CS:150 kHz 230 MHz | BS | N |
| SANS 61000-4-6:2009 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility(EMC) – Part 4-6: Testing and measurement techniques-Immunity to conducted disturbances, induced by radio-frequency fields | CS:150 kHz 230 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------------|--|--|--|------|---------------|
| SANS 61000-6-4:2011 | Electrical machinery for Industries | Electromagnetic compatibility (EMC)- Part 6-4 :Generic standards - Emission standard for industrial environments | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz DCE:150 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A | BS | N |
| EN IEC 61000-3-2:2019+A1:2021+A2:2024 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase) | below 16 A | BS | N |
| KS C 9832:2024 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment — Emission requirements | RE:30 MHz ~ 6 GHz, CE:150 kHz ~ 30 MHz Disturbance Voltage:30MHz ~ 2150 MHz | BS | N |
| CISPR 15:2018+A MD1:2024 | lighting equipment | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [Exception] 4.2 Insertion loss | RE:9 kHz ~ 6 GHz CE:9 kHz ~ 30 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--------------------------------------|---|---|------|---------------|
| ETSI EN 301 489-1 V2.2.3:2019 | Wired/wireless communication devices | Electro Magnetic Compatibility (EMC) standard for radio equipment and services Part1:Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V 12 V, 24 V SYSTEM(ISO 7637-2) | BS | N |
| ISO 16750-2:2012 | Wired/wireless communication devices | Road vehicles — Environmental conditions and testing for electrical and electronic equipment — Part2:Electrical loads | Power voltage: 0 V ~ 230 V | SF-2 | N |
| ISO 11452-9:2021 | Wired/wireless communication devices | Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy Part 9:Portable transmitters | 26 MHz ~ 5 850 MHz | SF-2 | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------------|---|--|--|------|---------------|
| EN IEC 61326-2-5:2021 | Electrical machinery for Industries | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5: Particular requirements - Test configurations, operational conditions and performance criteria for field devices with field bus interfaces according to IEC 61784-1 | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:≤30 A/m V-DIP:(0 100) % | BS | N |
| EN 61000-4-11:2004 +A1:2017 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) — Part 4-11:Testing and measurement techniques — Voltage dips, short interruptions and voltage variations immunity tests | V-DIP:(0 100) % | BS | N |
| EN 61000-3-3:2013+AMD2:2021 | Electrical machinery for households | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|-------------------------------------|---|--|------|---------------|
| SANS 61000-6-1:2005 | Electrical machinery for households | 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) ±4 kV(Contact) RS:80 MHz 2.7 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:3 A/m V-DIP:(0 100) % | BS | N |
| EN 61204-3:2000 | Electrical machinery for households | Low voltage power supplies, d.c. output - Part 3:Electromagnetic compatibility (EMC) | RE:30 MHz 1 GHz CE:150 kHz 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 1 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:1 A/m V-DIP:(0 100) % | BS | N |
| KS C IEC 60947-2:2022 | Industrial electrical appliances | Low-voltage switchgear and controlgear – Part 2: Circuit-breakers | RE:30 MHz ~ 1 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±4 kV SURGE:±4 kV CS:150 kHz ~ 80 MHz V-DIP:(0~100) % MF:30 A/m | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|--------------------------------------|--|--|------|---------------|
| EN IEC 61000-6-3:2021 | Electrical machinery for households | Electromagnetic compatibility (EMC) —Part 6-3: Generic standards — Emission standard for equipment in residential environments | RE:30 MHz 6 GHz CE:150 kHz 30 MHz DCE:150 kHz 30 MHz Harmonics: below 16 A Flicker: below 16 A | BS | N |
| ISO 11452-8:2015 | Wired/wireless communication devices | Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 8:Immunity to magnetic fields | DC 15 Hz 150 kHz | BS | N |
| ISO 11452-4:2020 | Wired/wireless communication devices | Road Vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 4:Harness excitation methods [exception] 6.2 TWC Test Method | 100 kHz ~ 400 MHz | BS | N |
| ISO 11452-2:2019 | Wired/wireless communication devices | Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 2:Absorber-lined shielded enclosure | 80 MHz ~ 18 GHz, ≤ 200 V/m | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|--|---|---------------------------------------|------|---------------|
| VCCI 32-1-2:2016 | Electrical machinery for households, Electrical machinery for Industries | VALIDATION OF TEST SITES FOR RADIATED EMISSION MEASUREMENTS | RE:30 MHz 18 GHz | BS | Y |
| EN 61000-4-4:2012 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) — Part 4-4: Testing and measurement techniques — Electrical fast transient/burst immunity test | EFT: below ± 4 kV | BS | N |
| MIL-STD-188-125-1:1998 | Household electrical appliances, Industrial electrical appliances | HIGH-ALTITUDE ELECTROMAGNETIC PULSE (HEMP) PROTECTION FOR GROUND-BASED C4I FACILITIES PERFORMING CRITICAL, TIME-URGENT MISSIONS PART 1 FIXED FACILITIES [Exception] Appendix B PULSED CURRENT INJECTION (PCI) TEST PROCEDURES | Measurement frequency: 10 kHz ~ 1 GHz | BS | Y |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|---|--|---|------|---------------|
| MIL-STD-188-125-2:2005 | Household electrical appliances, Industrial electrical appliances | HIGH-ALTITUDE ELECTROMAGNETIC PULSE (HEMP) PROTECTION FOR GROUND-BASED C4I FACILITIES PERFORMING CRITICAL, TIME-URGENT MISSIONS PART 2 TRANSPORTABLE SYSTEMS [Exception] Appendix B PULSED CURRENT INJECTION (PCI) TEST PROCEDURES | Measurement frequency : 10 kHz ~ 1 GHz | BS | Y |
| MIL-STD-188-125-1:2005 | Household electrical appliances, Industrial electrical appliances | HIGH-ALTITUDE ELECTROMAGNETIC PULSE (HEMP) PROTECTION FOR GROUND-BASED C4I FACILITIES PERFORMING CRITICAL, TIME-URGENT MISSIONS PART 1 FIXED FACILITIES [Exception] Appendix B PULSED CURRENT INJECTION (PCI) TEST PROCEDURES | Measurement frequency : 10 kHz ~ 1 GHz | BS | Y |
| ISO 10605:2023 | Wired/wireless communication devices | Road vehicles — Test methods for electrical disturbances from electrostatic discharge | ESD: below ± 25 kV(Air), below ± 25 kV(Contact) | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|--|--|---|------|---------------|
| EN IEC 61000-4-6:2023 | Household electrical appliances, Industrial electrical appliances | Electromagnetic compatibility(EMC) - Part 4-6:Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields | CS:150 kHz ~ 230 MHz | BS | N |
| KS X 3134:2014 | Wired/wireless communication devices | EMC Test Methods for Implantable Radio Equipment | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±6 kV(Contact) RS:80 MHz ~ 2.5 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI: -600 V ~ 200 V | BS | N |
| KS X 3143:2020 | Wired/wireless communication devices, Electrical machinery for households | EMI test methods for residential wireless power transfer equipment | RE:9 kHz ~ 1 GHz CE:150 kHz ~ 30 MHz | BS | N |
| ISO 11452-8:2015 | Wired/wireless communication devices | Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 8:Immunity to magnetic fields | DC 15 Hz ~ 150 kHz | SF-2 | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------------|--------------------------------------|---|---|------|---------------|
| ETSI EN 301 489-19 V2.2.1 (2022-09) | Wired/wireless communication devices | 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 CE:150 kHz 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % TI: -600 V ~ 200 V | BS | N |
| SANS 2335:2018 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment — Immunity requirements [exception] 3 phase connection equipment Table 2 – Immunity requirements for analogue/digital data ports: 2.2 Broadband impulse noise disturbances repetitive 2.3 Broadband impulse noise disturbances, isolated | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6.0 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:1 A/m V-DIP:(0 100) % | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|--|---|---|------|---------------|
| SANS 2332:2017 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment – Emission Requirements | RE:30 MHz 6 GHz, CE:150 kHz 30 MHz, Differential voltage:30 MHz 2 150 MHz | BS | N |
| EN IEC 61000-4-11:2020 | Electrical machinery for households, Electrical machinery for Industries | 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) % | BS | N |
| ETSI EN 301 489-7 V1.3.1:2005 | Wired/wireless communication devices | 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 CE:150 kHz 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 2.7 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % TI: -600 V ~ 200 V | BS | N |
| CISPR 15:2018 | Lighting devices | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|---|--|---|------|---------------|
| CISPR 16-1-4:2019 | Electrical machinery for households, Electrical machinery for Industries | 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 | BS | Y |
| SANS 61000-4-4:2011 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) – Part 4-4:Testing and measurement techniques – Electrical fast transient/burst immunity test | EFT: below ± 4 kV | BS | N |
| SANS 61000-4-5:2006 | Electrical machinery for households, Electrical machinery for Industries | Electromagnetic compatibility (EMC) – Part 4-5:Testing and measurement techniques – Surge immunity test | SURGE: below ± 6 kV | BS | N |
| KS C 9832:2023 | Wired/wireless communication devices | Electromagnetic compatibility of multimedia equipment - Emission Requirements | RE:30 MHz ~ 6 GHz, CE:150 kHz ~ 30 MHz Disturbance Voltage:30MHz ~ 2150 MHz | BS | N |
| KS C 9815:2023 | Wired/wireless communication devices | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment [exception] 4.2 Insertion loss | RE:9 kHz ~ 1 000 MHz CE:9 kHz ~ 30 MHz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|--|--|---|------|---------------|
| SANS 211:2010 | Household electrical appliances, Industrial electrical appliances | Industrial, scientific and medical equipment — Radio-frequency disturbance characteristics — Limits and methods of measurement | RE:9 kHz 18 GHz, CE:9 kHz 30 MHz | BS | N |
| EN IEC 61326-2-2:2021 | Electrical machinery for Industries | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2:Particular requirements - Test configurations, operational conditions and performance criteria for portable testing, measuring and monitoring equipment used in low-voltage distribution systems | ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz M/F:≤30 A/m V-DIP:(0 100) % | BS | N |
| ETSI EN 301 489-33 V2.2.1:2019 | Wired/wireless communication devices | Electromagnetic compatibility (EMC) standard for radio equipment and services; Part 33:Specific conditions for Ultra-Wide Band (UWB) communications devices; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU | RE:30 MHz 6 GHz CE:150 kHz 30 MHz Harmonics: below 16 A Flicker: below 16 A ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % TI: -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|--------------------------------------|---|---|------|---------------|
| SANS 213:2011 | Wired/wireless communication devices | Sound and television broadcast receivers and associated equipment – Radio disturbance characteristics – Limits and methods of measurement | RE:30 MHz 1 GHz, Differential voltage: 30 MHz 2 150 MHz Radiated Power: 0.9 GHz 18 GHz | BS | N |
| SANS 214-1:2020 | Household electrical appliances | Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus Part 1:Emission | RE:9 kHz 1 GHz, CE:9 kHz 30 MHz DCE:150 kHz30 MHz Disturbance Power: 30 MHz 300 MHz | BS | N |
| ETSI EN 301 489-27 V2.2.1:2019 | Wired/wireless communication devices | 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 | RE:30 MHz 6 GHz CE:150 kHz 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz 6 GHz EFT:±2 kV SURGE:±2 kV CS:150 kHz 80 MHz V-DIP:(0 100) % TI: -600 V ~ 200 V | BS | N |
| SANS 61000-6-3:2011 | Electrical machinery for households | Electromagnetic compatibility (EMC)- Part 6-3 : Generic standards - Emission standard for residential, commercial and light – industrial environments | RE:30 MHz 6 GHz CE:150 kHz 30 MHz DCE:150 kHz 30 MHz Harmonics: below 16 A Flicker: below 16 A | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------------|--|--|--|------|---------------|
| ANSI C63.4:2014 | Electrical machinery for households, Electrical machinery for Industries | 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 | BS | Y |
| ETSI EN 301 489-12 V3.2.1(2021-11) | Wired/wireless communication devices | ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in the Fixed Satellite Service (FSS); Harmonised Standard for ElectroMagnetic Compatibility | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI : -600 V ~ 200 V | BS | N |
| KS X 3302:2025 | Wired/wireless communication devices | EMC test method for Ultra-WideBand(UWB) devices | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI : -600 V ~ 200 V | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------|--------------------------------------|---|--|------|---------------|
| KS X 3303:2025 | Wired/wireless communication devices | EMC test method for Fixed Satellite Service (FSS) devices | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI : -600 V ~ 200 V | BS | N |
| QCVN 86:2025/BKHCN | Wired/wireless communication devices | National technical regulation on electromagnetic compatibility for mobile terminals and ancillary equipment of digital cellular telecommunication systems | RE:30 MHz ~ 6 GHz CE:150 kHz ~ 30 MHz ESD:±8 kV(Air) ±4 kV(Contact) RS:80 MHz ~ 6 GHz EFT:±1 kV SURGE:±2 kV CS:150 kHz ~ 80 MHz V-DIP:(0 ~ 100) % TI : -600 V ~ 200 V | BS | N |
| CISPR 25:2021 | Wired/wireless communication devices | 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 CE(Voltage method): 150 kHz ~ 108 MHz CE(Current method): 150 kHz ~ 245 MHz | SF-4 | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------------|--------------------------------------|--|---|------|---------------|
| ECE Regulation No.10 Revision 6:2019 | Wired/wireless communication devices | Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility. Annex 7 - Method of measurement of radiated broadband electromagnetic emissions from electrical/electronic sub-assemblies (ESAs) Annex 8 - Method of measurement of radiated narrowband electromagnetic emissions from electrical/electronic sub-assemblies Annex 9 – Method(s) of testing for immunity of electrical/electronic sub-assemblies to electromagnetic radiation [exception] 1.2.1(b) TEM cell 1.2.1(d) Stripline 1.2.1(e) 800 mm stripline | RE:30 MHz 1 GHz ALSE:80 MHz 2 GHz BCI:20 MHz 400 MHz TI: - 600 V ~ 200 V TE:12 V, 24 V System | SF-4 | N |
| ISO 10605:2023 | Wired/wireless communication devices | Road vehicles — Test methods for electrical disturbances from electrostatic discharge | ESD: below ± 25 kV(Air) below ± 25 kV(Contact) | SF-4 | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------|--------------------------------------|--|-------------------------------|------|---------------|
| ISO 11452-2:2019 | Wired/wireless communication devices | Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 2: Absorber-lined shielded enclosure | 80 MHz ~ 18 GHz, ≤ 200 V/m | SF-4 | N |
| ISO 11452-4:2020 | Wired/wireless communication devices | Road Vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 4: Harness excitation methods [exception] 6.2 TWC Test Method | 100 kHz ~ 400 MHz | SF-4 | N |
| ISO 11452-8:2015 | Wired/wireless communication devices | Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy — Part 8: Immunity to magnetic fields | DC 15 Hz 150 kHz | SF-4 | N |
| ISO 11452-9:2021 | Wired/wireless communication devices | Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy Part 9: Portable transmitters | 26 MHz 5 850 MHz | SF-4 | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------|--------------------------------------|---|-------------------------------------|------|---------------|
| ISO 16750-2:2012 | Wired/wireless communication devices | Road vehicles — Environmental conditions and testing for electrical and electronic equipment — Part 2: Electrical loads | Power voltage: 0 V ~ 230 V | SF-4 | N |
| ISO 7637-2:2011 | Wired/wireless communication devices | Road vehicles — Electrical disturbances from conduction and coupling — Part 2: Electrical transient conduction along supply lines only | TI : - 600 V ~ 200 V | SF-4 | N |
| ISO 7637-3:2016 | Wired/wireless communication devices | 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 | SF-4 | N |

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No. KT197

03. Electrical Testing

03.012 Software

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------------------------|--------------------|--|------------|------|---------------|
| IEC 60730-1:2013 /AMD2:2020 | Software | Automatic electrical controls - Part 1: General requirements Annex H Requirements for electronic controls | - | BS | Y |
| IEC 60730-1:2013 /AMD1:2015 | Software | Automatic electrical controls - Part 1: General requirements Annex H Requirements for electronic controls | - | BS | Y |
| IEC 60730-1:2013 | Software | Automatic electrical controls - Part 1: General requirements Annex H Requirements for electronic controls | - | BS | Y |
| IEC 60335-1:2010 +AMD1:2013+AMD2:2016 | Software | Household and similar electrical appliances – Safety – Part 1: General requirements Annex R Software evaluation | - | BS | Y |
| ISO/IEC 25051:2014 | Software | Software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE) - Requirements for quality of Ready to Use Software Product (RUSP) and instructions for testing | - | BS | Y |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|--------------------|---|------------|------|---------------|
| ISO/IEC 25023:2016 | Software | Systems and software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE) - Measurement of system and software product quality | - | BS | Y |
| ISO 26262-6:2018 | Software | Road vehicles - Functional safety - Part 6: Product development at the software level 8.4.5, 9.4.2, Table 6 | - | BS | Y |
| IEC 62304:2006/AMD1:2015 | Software | Medical device software – Software life cycle processes | - | BS | Y |
| IEC 62279:2015 | Software | Railway applications – Communication, signalling and processing systems – Software for railway control and protection systems Table A.12 | - | BS | Y |
| KC 62619:2019 | Software | Safety requirements for secondary lithium cells and batteries Annex D Consideration of functional safety for battery management system | - | BS | Y |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------|--------------------|--|------------|------|---------------|
| KS X ISO/IEC 25051:2014 | Software | Software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE) - Requirements for quality of Ready to Use Software Product (RUSP) and instructions for testing | - | BS | Y |
| KS X ISO/IEC 25023:2016 | Software | Systems and software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE) - Measurement of system and software product quality | - | BS | Y |
| IEC 60730-1:2022 | Software | Automatic electrical controls - Part 1: General requirements, Annex H Requirements related to functional safety | - | BS | Y |
| MISRA C:2012 | Software | Guidelines for the use of the C language in critical systems | - | BS | Y |
| IEC 60335-1:2020 | Software | Household and similar electrical appliances - Safety - Part 1: General requirements Annex R Software evaluation | - | BS | Y |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|--------------------|---|------------|------|---------------|
| KS C IEC 60730-1:2020 | Software | Automatic electrical controls - Part 1: General requirements Annex H Requirements for electronic controls | - | BS | Y |
| KC 62619:2023 | Software | Safety requirements for secondary Lithium cells and batteries for use in industrial applications Annex E Battery management system (considering functional safety) | - | BS | Y |
| KC 60335-1:2022 | Software | Household and similar electrical appliances - Safety - Part 1: General requirements Annex R Software evaluation | - | BS | Y |
| IEC 61508-3:2010 | Software | Functional safety of electrical/electronic/programmable electronic safety-related systems - Part3: Software requirements Table B.1 | - | BS | Y |
| KS P IEC 62304:2015 | Software | Medical device software – Software life cycle processes | - | BS | Y |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|--------------------|---|------------|------|---------------|
| KS C IEC 60730-1:2015 | Software | Automatic electrical controls - Part 1: General requirements Annex H Requirements for electronic controls | - | BS | Y |
| MISRA C++:2008 | Software | Guidelines for the use of the C++ language in critical systems | - | BS | Y |
| EN 50716:2023 | Software | Railway Applications. Requirements for software development. – Table A.12 | - | BS | Y |
| KS C IEC 60730-1:2022 | Software | Automatic electrical controls - Part 1: General requirements, Annex H Requirements related to functional safety | - | BS | Y |
| EN 18031-1:2024 | Software | Common security requirements for radio equipment - Part 1: Internet connected radio equipment | - | BS | Y |
| EN 18031-2:2024 | Software | 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 | - | BS | Y |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|--------------------|--|------------|------|---------------|
| EN 18031-3:2024 | Software | Common security requirements for radio equipment - Part 3: Internet connected radio equipment processing virtual money or monetary value | - | BS | Y |
| IEC 81001-5-1:2021 | Software | Health software and health IT systems safety, effectiveness and security – Part 5-1: Security – Activities in the product life cycle | - | BS | Y |
| IEC TR 60601-4-5:2021 | Software | Medical electrical equipment – Part 4-5: Guidance and interpretation – Safety-related technical security specifications | - | BS | Y |

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03. Electrical Testing

03.013 Energy Efficiency

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--|-----------------------------------|---|--|------|---------------|
| Ministry of Climate, Energy and Environment Notification No. 2026-25 (Jan. 23, 2026) | Electrical/electronics appliances | Operational Regulation of the Standby Power Reduction Program [Accept only] 3. Printers 5. Copiers 6. Scanners 10. Audio Equipment 11. DVD Players 12. Radio Cassette Recorders 13. Microwave Ovens 15. Door Phones 16. Corded and Cordless Telephones 20. Hand Dryers 21. Servers | Input Voltage:Max. 300 V a.c., Input Current:Max. 20 A, Rated Input Frequency:(50 ~ 60) Hz, Temperature:(0 ~ 200) °C | BS | N |
| Ministry of Climate, Energy and Environment Notification No. 2026-26 (Jan. 23, 2026) | Electrical/electronics appliances | Operational Regulation for Energy Efficiency Management Equipment [Accept only] 20. Adapter-Chargers 26. Television Receivers 42. Signage Displays 44. Monitors 49. Computers 50. Multifunction Printers (MFPs) | Input Voltage:Max. 300 V a.c., Input Current:Max. 20 A a.c., Rated Input Frequency:(50 ~ 60) Hz, Temperature:(0 ~ 200) °C Adapter charger:150 W or less, TV set:screen 47 cm ~ 216 cm or less, Signage display:screen 30.48 cm ~ 154.94 cm or less, Monitor: 153 cm or less | BS | N |

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No. KT197

03. Electrical Testing

03.014 Environmental and Reliability

| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------------|-------------------------------------|--|--|------|---------------|
| IEC 60068-2-78:2025 | Electrical materials and components | Environmental testing - Part 2-78:Tests - Test Cab:Damp heat, steady state | Temperature : (10 ~ 90) °C Humidity : (10 ~ 98) % R.H. | BS | N |
| IEC 60068-2-30:2025 | Electrical materials and components | Environmental testing - Part 2-30:Tests - Test Db:Damp heat, cyclic (12 h + 12 h cycle) | Temperature : (10 ~ 90) °C Humidity : (10 ~ 98) % R.H. | BS | N |
| IEC 60068-2-2:2025 | Electrical materials and components | Environmental testing - Part 2-2:Tests - Test B:Dry heat | Temperature : (30 ~ 200) °C | BS | N |
| IEC 60068-2-1:2025 | Electrical materials and components | Environmental testing - Part 2-1:Tests - Tests A:Cold | Temperature : (-70 ~ 5) °C | BS | N |
| MIL-STD-810H w/Change 1:2022 | Electrical materials and components | TEST METHOD STANDARD ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS 500.6 Low Pressure (Altitude) Procedure I - Storage/Air Transport. Procedure II - Operation/Air Carriage. 501.7 High temperature 502.7 Low temperature 503.7 Temperature shock 507.6 Humidity 509.8 Salt Fog / Corrosive Environments [Exception] Procedure III - Natural | Air Pressure:(7.1 ~ 101.33) kPa Temperature: (-70 ~ 150) °C Temperature:(60 ~ 200) °C Temperature:(-65 ~ 0) °C Temperature:(10 ~ 90) °C, Humidity:(10 ~ 98) % R.H. Temperature:35 °C, NaCl concentration:5 %, Frequency:(4 ~ 2 000) Hz, Vibration Acceleration:(1.1 ~ 147) | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------|---|--|---|------|---------------|
| | | Environment 512.6 Immersion Procedure I - Immersion 514.8 Vibration [Exception] Category 5 - Truck/trailer - Loose Cargo 516.8 Shock [Exception] Procedure VII - Pendulum Impact Procedure VIII - Catapult Lanch/Arrested Landing 519.8 Gunfire Shock (Procedure III) 520.5 Combined Environments 528.1 MECHANICAL VIBRATIONS OF SHIPBOARD EQUIPMENT (TYPE I - ENVIRONMENTAL VIBRATION) | m/s ² Shock Acceleration: (1.1 ~ 980) m/s ² Depth of Immersion:1 000 mm | | |
| MIL-STD-810G:2 008 | Electrical materials and components | TEST METHOD STANDARD ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS 500.5 Low Pressure (Altitude) Procedure I - Storage/Air Transport. Procedure II - Operation/Air Carriage. 501.5 High temperature 502.5 Low temperature | Air Pressure:(7.1 ~ 101.33) kPa Temperature: (-70 ~ 150) °C Temperature:(60 ~ 200) °C Temperature:(-65 ~ 0) °C Temperature:(10 ~ 90) °C, Humidity:(10 ~ 98) % R.H. Temperature:35 °C, NaCl concentration:5 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|-------------------------------------|---|---|------|---------------|
| | | 503.5 Temperature shock 507.5 Humidity 509.5 Salt Fog 512.5 Immersion Procedure I - Immersion 514.6 Vibration [Exception] Category 5 – Truck/Trailer/Tracked - Loose Cargo 516.6 Shock [Exception] Procedure VII – Pendulum Impact Procedure VIII – Catapult Launch/Arrested Landing 519.6 Gunfire Shock 520.3 Temperature, Humidity, Vibration, and Altitude 528 MECHANICAL VIBRATIONS OF SHIPBOARD EQUIPMENT (TYPE I – ENVIRONMENTAL VIBRATION) | %, Frequency:(4 ~ 2 000) Hz, Vibration Acceleration:(1.1 ~ 147) m/s ² Shock Acceleration:(1.1 ~ 980) m/s ² Depth of Immersion:1 000 mm | | |
| IEC 60068-2-6:2007 | Electrical materials and components | Environmental testing - Part 2-6:Tests - Test Fc:Vibration (sinusoidal) | Frequency : (5 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² | BS | N |
| IEC 60068-2-64: 2008+AMD1:2019 | Electrical materials and components | Environmental Testing - Part 2-64:Tests methods - Test Fh:Vibration, broadband random and guidance | Frequency : (5 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------|-------------------------------------|--|--|------|---------------|
| KS C IEC 60068-2-2:2007 | Electrical materials and components | Environmental testing - Part 2-2:Tests - Test B:Dry heat | Temperature : (30 ~ 200) °C | BS | N |
| KS C IEC 60068-2-6:2015 | Electrical materials and components | Environmental testing - Part 2-6:Tests - Test Fc:Vibration (sinusoidal) | Frequency : (5 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² | BS | N |
| IEC 60068-2-27: 2008 | Electrical materials and components | Environmental testing - Part2-27:Tests - Test Ea and guidance:Shock | Shock Acceleration : (1.1 ~ 1 500) m/s ² | BS | N |
| RTCA DO-160G:2010 | Electrical materials and components | ENVIRONMENTAL CONDITIONS AND TEST PROCEDURES FOR AIRBORNE EQUIPMENT Section 4 Temperature and Altitude [Exception] 4.6.2 Decompression Test 4.6.3 Overpressure Test Section 5 Temperature Variation Section 6 Humidity Section 7 Operational Shocks and Crash Safety [Exception] 7.3.3 Test Procedure 2 (Sustained) Section 8 Vibration Section 14 Salt Fog | Air Pressure : (9.12 ~ 101.33) kPa Temperature : (-55 ~ 85) °C Humidity : (10 ~ 98) % R.H. NaCl concentration : 5 % Frequency : (4 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² Shock Acceleration : (1.1 ~ 400) m/s ² | BS | N |
| KS R 9186:2021 | Electrical materials and components | Parts for railway signal - Vibration test methods | Frequency : (5 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|-------------------------------------|--|---|------|---------------|
| ISO 16750-3:2023 | Electrical materials and components | Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 3:Mechanical loads [Exception] Test X — Passenger car, components on fuel rail (gasoline engine with GDI-system) | Frequency : (5 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² Shock Acceleration : (1.1 ~ 1 500) m/s ² Drop Height : (25 ~ 1 500) mm | BS | N |
| KS C IEC 60068-2-78:2012 | Electrical materials and components | Environmental testing - Part 2-78:Tests - Test Cab:Damp heat, steady state | Temperature : 30 °C, 40 °C Humidity : (10 ~ 98) % R.H. | BS | N |
| KS C IEC 60068-2-30:2005 | Electrical materials and components | Environmental testing - Part 2-30:Tests - Test Db:Damp heat, cyclic (12 h + 12 h cycle) | Temperature : (10 ~ 90) °C Humidity : (10 ~ 98) % R.H. | BS | N |
| KS C IEC 60068-2-31:2008 | Electrical materials and components | Environmental testing - Part 2-31:Tests - Test Ec:Rough handling shock, primarily for equipment - type specimens | Drop hight : (25 ~ 1 500) mm | BS | N |
| KS C IEC 60068-2-64:2019 | Electrical materials and components | Environmental Testing - Part 2-64:Tests methods - Test Fh:Vibration, broad-band random and guidance | Frequency : (5 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² | BS | N |
| KS C IEC 60068-2-67:2019 | Electrical materials and components | Environmental testing – Part 2-67:Tests – Test Cy:Damp heat, steady state, accelerated test primarily intended for components | Temperature : (10 ~ 90) °C Humidity : (10 ~ 98) % R.H. | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|-------------------------------------|---|---|------|---------------|
| KS C IEC 60068-2-27:2008 | Electrical materials and components | Environmental testing - Part2-27:Tests - Test Ea and guidance:Shock | Shock Acceleration : (1.1 ~ 1 500) m/s ² | BS | N |
| KS C IEC 60068-2-13:2021 | Electrical materials and components | Basic environmental testing procedures - Part 2-13:Tests - Test M: Low air pressure | Air Pressure : (7.1 ~ 101.33) kPa | BS | N |
| MIL-PRF-28800F: 1996 | Electrical materials and components | <p>PERFORMANCE SPECIFICATION TEST EQUIPMENT FOR USE WITH ELECTRICAL AND ELECTRONIC EQUIPMENT, GENERAL SPECIFICATION FOR</p> <p>4.5.3.1 c. Environmental Stress Screening (random vibration)</p> <p>4.5.3.1 d. Environmental Stress Screening (temperature cycling)</p> <p>4.5.5.1 Temperature and Humidity Tests</p> <p>4.5.5.2 Altitude Test</p> <p>4.5.5.3.1 Random Vibration Test</p> <p>4.5.5.3.2 Sinusoidal Vibration Test</p> <p>4.5.5.4.1 Functional Shock Test</p> <p>4.5.5.4.2 Transit drop test</p> <p>4.5.5.4.3 Bench handling test</p> <p>4.5.5.5.1 Watertight Test, Class 1 and air tight transit case</p> <p>4.5.6.2 Salt Fog Tests</p> | <p>Frequency: (10 ~ 2 000) Hz</p> <p>Temperature: (-51 ~ 71) °C</p> <p>Humidity: (10 ~ 98) % R.H.</p> <p>Altitude: 4 600 m</p> <p>Shock Acceleration: 294 m/s²</p> <p>Depth of Immersion: 0.9 m</p> <p>Temperature:35 °C, NaCl concentration:5 %</p> | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------|-------------------------------------|--|--|------|---------------|
| MIL-STD-202G:2002 | Electrical materials and components | TEST METHOD STANDARD ELECTRONIC AND ELECTRICAL COMPONENT PARTS 101E Salt Atmosphere (Corrosion) 103B Humidity (Steady State) 105C Barometric Pressure (Reduced) 106G Moisture Resistance 107G Thermal Shock Table 107-I 108A LIFE (At Elevated Ambient Temperature) 201A Vibration 204D Vibration, High Frequency 213B Shock (Specified Pulse) 214A Random Vibration | Air Pressure : (11.6 ~ 101.33) kPa Temperature : (-70 ~ 200) °C Humidity : (10 ~ 98) % R.H. NaCl concentration : 5 % Frequency : (4 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² Shock Acceleration : (1.1 ~ 980) m/s ² | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------|-------------------------------------|--|---|------|---------------|
| MIL-STD-202H:2015 | Electrical materials and components | TEST METHOD STANDARD ELECTRONIC AND ELECTRICAL COMPONENT PARTS 101 Salt Atmosphere (Corrosion) 103 Humidity (Steady State) 105 Barometric Pressure (Reduced) 106 Moisture Resistance 107 Thermal Shock Table 107-I 108 LIFE (At Elevated Ambient Temperature) 201 Vibration 204 Vibration, High Frequency 213 Shock (Specified Pulse) 214 Random Vibration | Air Pressure : (11.6 ~ 101.33) kPa Temperature : (-70 ~ 200) °C Humidity : (10 ~ 98) % R.H. NaCl concentration : 5 % Frequency : (4 ~ 2000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² Shock Acceleration : (1.1 ~ 980) m/s ² | BS | N |
| MIL-STD-810C:1975 | Electrical materials and components | Environmental Test Methods 501.1 High Temperature 502.1 Low Temperature 503.1 Temperature Shock 507.1 Humidity 514.2 Vibration 516.2 Shock 519.2 Gunfire Vibration, AIRCRAFT | Temperature : (-70 ~ 150) °C Temperature : (60 ~ 200) °C Temperature : (-65 ~ 0) °C Temperature : (10 ~ 90) °C Humidity : (10 ~ 98) % R.H. Frequency : (5 ~ 2000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² Shock Acceleration : (1.1 ~ 980) m/s ² | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60068-2-53:2010 | Electrical materials and components | Environmental testing – Part 2-53:Tests and guidance – Combined climatic (temperature/humidity) and dynamic (vibration/shock) tests | Temperature : (-40 ~ 150) °C Humidity : (20 ~ 98) % R.H. Vibration Frequency : (5 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² Shock Acceleration : (1.1 ~ 909) m/s ² | BS | N |
| IEC 60068-2-52:2017 | Electrical materials and components | Environmental testing - Part 2-52:Tests - Test Kb:Salt mist, cyclic (sodium chloride solution) | Temperature : (15 ~ 35) °C, 40 °C NaCl concentration : 5 % Humidity : (45 ~ 55) % R.H., 93 % R.H. | BS | N |
| IEC 60068-2-31:2008 | Electrical materials and components | Environmental testing - Part 2-31:Tests - Test Ec:Rough handling shock, primarily for equipment- type specimens | Drop Height : (25 ~ 1 500) mm | BS | N |
| IEC 61373:2010 | Electrical materials and components | Railway applications - Rolling stock equipment - Shock and vibration tests | Frequency : (5 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² Shock Acceleration : (1.1 ~ 1 500) m/s ² | BS | N |
| KS C IEC 60068-2-38:2021 | Electrical materials and components | Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test | Temperature : (-10 ~ 90) °C Humidity : (10 ~ 98) % R.H. | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|--|--|------|---------------|
| KS C IEC 60068-2-52:2017 | Electrical materials and components | Environmental testing - Part 2-52:Tests - Test Kb:Salt mist, cyclic (sodium chloride solution) | Temperature : (15 35) °C, 40 °C NaCl concentration : 5 % Humidity : (45 55) % R.H., 93 % R.H. | BS | N |
| KS C IEC 60068-2-53:2010 | Electrical materials and components | Environmental testing – Part 2-53:Tests and guidance – Combined climatic (temperature/humidity) and dynamic (vibration/shock) tests | Temperature : (-40 ~ 150) °C Humidity : (20 ~ 98) % R.H Vibration Frequency : (5 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² Shock Acceleration : (1.1 ~ 909) m/s ² | BS | N |
| ISO 16750-4:2023 | Electrical materials and components | Road vehicles -Environmental conditions and testing for electrical and electronic equipment-Part4:Climatic loads [Exception] 5.4 Ice water shock test, 5.8 Corrosion test with flow of mixed gas, 5.9 Solar radiation | Temperature : (-70 ~ 200) °C Humidity : (10 ~ 98) % R.H. Temperature : 35 °C NaCl concentration : 5 % | BS | N |
| ISO 20653:2023 | Electrical materials and components | 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 | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-----------------------------|-------------------------------------|--|--|------|---------------|
| KS C IEC 60255-21-2:1988 | Electrical materials and components | Electrical relays - Part 21:Vibration, shock, bump and seismic tests on measuring relays and protection equipment – section two:Shock and bump tests [exception] Bump test | Frequency : (5 ~ 2 000) Hz Shock Acceleration : (1.1 ~ 1 500) m/s ² | BS | N |
| KS C IEC 60529:2013 | Electrical materials and components | Degrees of protection provided by enclosures (IP Code) | IPX1, IPX2, IPX3, IPX4, IPX5, IPX6, IPX7, IPX8, IPX9, IP1X, IP2X, IP3X ,IP4X ,IP5X ,IP6X | BS | N |
| KS C IEC 60571:2012 | Electrical materials and components | Railway applications - Electronic equipment used on rolling stock [exception] 12.2.7 Supply overvoltages 12.2.8 Surges, electrostatic discharge and transient burst susceptibility tests 12.2.9 Radio frequency test | Frequency : (5 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² Shock Acceleration : (1.1 ~ 1 500) m/s ² Temperature : (-70 ~ 150) °C Humidity : (10 ~ 98) % R.H. Temperature : 35 °C NaCl concentration : 5 % | BS | N |
| KS C IEC 61373:2010 | Electrical materials and components | Railway applications - Rolling stock equipment - Shock and vibration tests | Frequency : (5 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² Shock Acceleration : (1.1 ~ 1 500) m/s ² | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------|-------------------------------------|---|---|------|---------------|
| IEC 60068-2-14:2023 | Electrical materials and components | Environmental testing -Part2-14:Tests-Test N:Change of temperature [Exception] 9. Test Nc:Rapid change of temperature, two-fluid-bath method | Temperature : (-70 ~ 150) °C | BS | N |
| KS C IEC 60068-3-4:2001 | Electrical materials and components | Environmental testing - Part 3-4:Supporting documentation and guidance - Damp heat tests | Temperature : (10 ~ 90) °C Humidity : (10 ~ 98) % R.H. | BS | N |
| MIL-STD-167-1A: 2005 | Electrical materials and components | MECHANICAL VIBRATIONS OF SHIPBOARD EQUIPMENT (TYPE I - ENVIRONMENTAL VIBRATION) | Frequency : (4 ~ 33) Hz | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------|-------------------------------------|--|---|------|---------------|
| MIL-STD-810F:2000 | Electrical materials and components | TEST METHOD STANDARD FOR ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS 500.4 Low Pressure (Altitude) Procedure I - Storage/Air Transport. Procedure II - Operation/Air Carriage. 501.4 High temperature 502.4 Low temperature 503.4 Temperature shock 507.4 Humidity 509.4 Salt Fog 512.4 Immersion Procedure I - Immersion 514.5 Vibration [Exception] Category 5 - Truck/trailer/tracked - loose cargo 516.5 Shock [Exception] Procedure VII - Rail impact Procedure VIII - Catapult Launch/Arrested Landing 519.5 Gunfire Vibration 520.2 Temperature, Humidity, Vibration, and Altitude | Air Pressure:(7.1 ~ 101.33) kPa Temperature: (-70 ~ 150) °C Temperature:(60 ~ 200) °C Temperature:(-65 ~ 0) °C Temperature:(10 ~ 90) °C, Humidity:(10 ~ 98) % R.H. Temperature:35 °C, NaCl concentration:5 %, Frequency:(5 ~ 2 000) Hz, Vibration Acceleration:(1.1 ~ 147) m/s ² Shock Acceleration:(1.1 ~ 980) m/s ² Depth of Immersion:1 000 mm | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------|-------------------------------------|---|--|------|---------------|
| MIL-STD-810F:2003 | Electrical materials and components | <p>TEST METHOD STANDARD FOR ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS</p> <p>500.4 Low Pressure (Altitude) Procedure I - Storage/Air Transport. Procedure II - Operation/Air Carriage.</p> <p>501.4 High temperature 502.4 Low temperature 503.4 Temperature shock 507.4 Humidity 509.4 Salt Fog 512.4 Immersion Procedure I - Immersion</p> <p>514.5 Vibration [Exception] Category 5 – Truck/trailer/tracked - loose cargo</p> <p>516.5 Shock [Exception] Procedure VII – Rail impact Procedure VIII – Catapult Launch/Arrested Landing</p> <p>519.5 Gunfire Vibration 520.2 Temperature, Humidity, Vibration, and Altitude</p> | <p>Air Pressure:(7.1 ~ 101.33) kPa Temperature: (-70 ~ 150) °C Temperature:(60 ~ 200) °C Temperature:(-65 ~ 0) °C Temperature:(10 ~ 90) °C, Humidity:(10 ~ 98) % R.H. Temperature:35 °C, NaCl concentration:5 %, Frequency:(5 ~ 2 000) Hz, Vibration Acceleration:(1.1 ~ 147) m/s² Shock Acceleration:(1.1 ~ 980) m/s² Depth of Immersion:1 000 mm</p> | BS | N |
| IEC 60068-2-13:2021 | Electrical materials and components | <p>Environmental testing procedures - Part 2-13: Tests – Test M: Low air pressure</p> | <p>Air Pressure : (7.1 ~ 101.33) kPa</p> | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|----------------------|-------------------------------------|--|--|------|---------------|
| IEC 60255-27:2013 | Electrical materials and components | Measuring relays and protection equipment – Part 27: Product safety requirements [Accept only] 10.6.4.4 Insulation resistance | Insulation voltage: (450 ~ 550) Vd.c. Insulation resistance: less than 4 000 MΩ | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------|-------------------------------------|---|--|------|---------------|
| MIL-STD-810H:2019 | Electrical materials and components | TEST METHOD STANDARD ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS 500.6 Low Pressure (Altitude) Procedure I - Storage/Air Transport. Procedure II - Operation/Air Carriage. 501.7 High temperature 502.7 Low temperature 503.7 Temperature shock 507.6 Humidity 509.7 Salt Fog 512.6 Immersion Procedure I - Immersion 514.8 Vibration [Exception] Category 5 - Truck/trailer - Loose Cargo 516.8 Shock [Exception] Procedure VII - Pendulum Impact Procedure VIII - Catapult Lanch/Arrested Landing 519.8 Gunfire Shock (Procedure III) 520.5 Combined Environments 528.1 MECHANICAL VIBRATIONS OF SHIPBOARD EQUIPMENT (TYPE I - ENVIRONMENTAL VIBRATION) | Air Pressure:(7.1 ~ 101.33) kPa Temperature: (-70 ~ 150) °C Temperature:(60 ~ 200) °C Temperature:(-65 ~ 0) °C Temperature:(10 ~ 90) °C, Humidity:(10 ~ 98) % R.H. Temperature:35 °C, NaCl concentration:5 %, Frequency:(4 ~ 2 000) Hz, Vibration Acceleration:(1.1 ~ 147) m/s ² Shock Acceleration: (1.1 ~ 980) m/s ² Depth of Immersion:1 000 mm | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------|-------------------------------------|---|---|------|---------------|
| KS C IEC 60068-2-1:2007 | Electrical materials and components | Environmental testing - Part 2-1:Tests - Tests A: Cold | Temperature : (-70 ~ 5) °C | BS | N |
| MIL-STD-167-1:1 974 | Electrical materials and components | MECHANICAL VIBRATIONS OF SHIPBOARD EQUIPMENT (TYPE I – ENVIRONMENTAL VIBRATION) | Frequency : (4 ~ 50) Hz | BS | N |
| KS C IEC 60255-21-1:1988 | Electrical materials and components | Electrical relays - Part 21:Vibration, shock, bump and seismic tests on measuring relays and protection equipment - section one:Vibration test (sinusoidal) | Frequency : (5 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² | BS | N |
| IEC 60068-2-66:1 994 | Electrical materials and components | Environmental testing - Part 2:Test methods - Test Cx:Damp heat, steady state (unsaturated pressurized vapour) | Temperature : 110 °C, 120 °C, 130 °C Humidity : 85 % R.H. | BS | N |
| ES 96100-02:2007 | Electrical materials and components | CAR AUDIO (RADIO/CDC/CDP/AV) Reliability test standard | Temperature:(-70 ~ 200) °C Humidity:(10 ~ 98) % R.H. Frequency:(5 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² Shock Acceleration : (1.1 ~ 1 500) m/s ² | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|------------------------|-------------------------------------|---|--|------|---------------|
| MIL-STD-810E:1989 | Electrical materials and components | ENVIRONMENTAL TEST METHODS AND ENGINEERING GUIDELINES 500.3 Low Pressure (Altitude) Procedure I - Storage Procedure II - Operation 501.3 High temperature 502.3 Low temperature 503.3 Temperature shock 507.3 Humidity 509.3 Salt Fog 514.4 Vibration [Exception] Category 2 - Large Assembly Transport Category 3 - Loose Cargo Transport 516.4 Shock [Exception] Procedure VII - Pyrotechnic shock Procedure VIII - Rail impact Procedure IX - Catapult launch/arrested landing 519.4 GUNFIRE VIBRATION, AIRCRAFT | Air Pressure:(7.1 ~ 101.33) kPa Temperature: (-70 ~ 150) °C Temperature:(60 ~ 200) °C Temperature:(-65 ~ 0) °C Temperature:(10 ~ 90) °C, Humidity:(10 ~ 98) % R.H. Temperature:35 °C, NaCl concentration:5 %, Frequency:(5 ~ 2 000) Hz, Vibration Acceleration:(1.1 ~ 147) m/s ² Shock Acceleration:(1.1 ~ 980) m/s ² | BS | N |
| MIL-STD-810G CHG1:2014 | Electrical materials and components | TEST METHOD STANDARD ENVIRONMENTAL ENGINEERING CONSIDERATIONS AND LABORATORY TESTS 500.6 Low Pressure (Altitude) Procedure I - Storage/Air Transport. | Air Pressure:(7.1 ~ 101.33) kPa Temperature: (-70 ~ 150) °C Temperature:(60 ~ 200) °C Temperature:(-65 ~ 0) °C Temperature:(10 ~ 90) | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|---------------------|-------------------------------------|---|---|------|---------------|
| | | Procedure II - Operation/Air Carriage. 501.6 High temperature 502.6 Low temperature 503.6 Temperature shock 507.6 Humidity 509.6 Salt Fog 512.6 Immersion Procedure I - Immersion 514.7 Vibration [Exception] Category 5 - Truck/trailer - Loose Cargo 516.7 Shock [Exception] Procedure VI - Bench Handling Procedure VII - Pendulum Impact Procedure VIII - Catapult Lanch/Arrested Landing 519.7 Gunfire Shock 520.4 Temperature, Humidity, Vibration, and Altitude 528.1 Mechanical Vibrations Of Shipboard Materiel (Type I - ENVIRONMENTAL VIBRATION) | °C, Humidity:(10 ~ 98) % R.H. Temperature:35 °C, NaCl concentration:5 %, Frequency:(4 ~ 2 000) Hz, Vibration Acceleration:(1.1 ~ 147) m/s ² Shock Acceleration:(1.1 ~ 980) m/s ² Depth of Immersion:1 000 mm | | |
| IEC 60068-2-11:2021 | Electrical materials and components | Environmental testing – Part 2-11: Tests – Test Ka: Salt mist | Temperature : 35 °C NaCl concentration : 5 % | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|--------------------------------|-------------------------------------|--|--|------|---------------|
| KS C IEC 60068-2-14:2023 | Electrical materials and components | Environmental testing - Part2-14:Tests - Test N:Change of temperature [Exception] 9. Test Nc:Rapid change of temperature, two-fluid-bath method | Temperature : (-70 ~ 150) °C | BS | N |
| KS R 1034:2023 | Electrical materials and components | Vibration testing methods for automobile parts | Frequency : (5 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² | BS | N |
| IEC 60571:2012 | Electrical materials and components | Railway applications - Electronic equipment used on rolling stock [exception] 12.2.7 Supply overvoltages 12.2.8 Surges, electrostatic discharge and transient burst susceptibility tests 12.2.9 Radio frequency test | Frequency : (5 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² Shock Acceleration : (1.1 ~ 1 500) m/s ² Temperature : (-70 ~ 150) °C Humidity : (10 ~ 98) % R.H. Temperature : 35 °C NaCl concentration : 5 % | BS | N |
| IEC 60529:1989+A1:1999+A2:2013 | Electrical materials and components | Degrees of protection provided by enclosures (IP Code) | IPX1, IPX2, IPX3, IPX4, IPX5, IPX6, IPX7, IPX8, IPX9, IP1X, IP2X, IP3X ,IP4X ,IP5X ,IP6X | BS | N |
| KS R 9144:2021 | Electrical materials and components | Test methods for vibration of parts of railway rolling stock | Frequency : (5 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² | BS | N |

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| Test method | Materials Products | Standard designation | Test range | Site | Field testing |
|-------------------------------|-------------------------------------|---|--|------|---------------|
| IEC 60068-2-67:1995+AMD1:2019 | Electrical materials and components | Environmental testing - Part 2-67:Tests - Test Cy:Damp heat, steady state, accelerated test primarily intended for components | Temperature : (10 ~ 90) °C Humidity : (10 ~ 98) % R.H. | BS | N |
| KS C 7620:2003 | Electrical materials and components | Railway car luminaries for fluorescent lamps [exception] 7.2 Characteristic test 7.8 Life cycle test 7.11 Luminous flux rate test 7.13 Noise strength test | Voltage : DC 24 V, DC 100 V Current : (0 ~ 200) A Temperature : (0 ~ 200) °C | BS | N |
| ES 95400-10:2013 | Electrical materials and components | Environment Reliability test for Electronic Equipment for Vehicle [exception] 3.5.14 Ozone resistance test | Temperature : (-70 ~ 200) °C Humidity : (10 ~ 98) % R.H. Frequency : (5 ~ 2 000) Hz Vibration Acceleration : (1.1 ~ 147) m/s ² Shock Acceleration : (1.1 ~ 1 500) m/s ² Temperature : 35 °C NaCl concentration : 5 % | BS | N |
| KS C IEC 60068-2-11:2021 | Electrical materials and components | Basic environmental testing procedures - Part 2-11:Tests - Test Ka:Salt mist | Temperature : 35 °C NaCl concentration : 5 % | BS | N |

END.