CERTIFICATE OF ACCREDITATION

This is to attest that

TUV SUD SOUTH ASIA PVT LTD

PLOT NO. 3-P1-B, HITECH DEFENCE & AEROSPACE PARK, KIADB INDUSTRIAL AREA, BK PALYA, BANGALORE, KA, 562149, INDIA

Testing Laboratory TL-1252

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories.* This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date June 13, 2024

International Accreditation Service

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SCOPE OF ACCREDITATION

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TUV SUD SOUTH ASIA PVT LTD

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Accredited to ISO/IEC 17025:2017 *Effective Date June 13, 2024*

IT & AV	
CSA C22.2 NO. 60065:16 (R2020)	Audio, video and similar electronic apparatus - Safety requirements Exclusions: Cl.6.1- Ionizing Radiation Cl.6.2 - Laser Radiation Cl.6.3 - Light emitting diodes (LEDs) Cl.8.17- Endurance test for wound components Cl.14.2 - Resistors Cl.14.3 - Capacitors and RC-units Cl.14.7 - Switches Cl.16 - External Flexible cord Cl.18 - Mechanical strength of picture tubes and protection against effects of implosion Annex H - Insulating winding wires
CAN/CSA-C22.2 NO. 60950-1-07 (R2021)	Information technology equipment - Safety - Part 1: General requirements Exclusions: Cl.2.10.5.4 - Partial Discharge Test (on semiconductors) Cl.4.2.8 - Cathode ray tube Cl.4.3.12 - Flammable liquids Cl.4.3.13.2 - Ionizing radiation Cl.4.3.13.3 - Effect of UV radiation on materials Cl.4.3.13.4 - UV Test Cl.4.3.13.5.1 - Laser (including laser diodes) Cl.4.3.13.5.2 - Light emitting diodes (LEDs) Annex Q - Voltage dependent resistors (VDRs) Annex U - Insulating winding wires
CSA C22.2 No. 62368-1:19	Audio/video, information, and communication technology equipment - Part 1: Safety requirements Exclusions: Cl.4.1.8 - Liquids, refrigerants and liquid filled components (LFCs) Cl.5.4.12.3 - Compatibility of an insulating liquid Cl.5.6.4.1 - Determination of the overcurrent protective device and circuit (Annex R) Cl.7.2 - Reduction of exposure to hazardous Substances Cl.10 – Radiation Annex C - UV radiation

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EN 60065:2014+A11:2017	Audio, video and similar electronic apparatus - Safety requirements Exclusions: Cl.6.1- Ionizing Radiation Cl.6.2 - Laser Radiation Cl.6.3 - Light emitting diodes (LEDs) Cl.8.17- Endurance test for wound components Cl.14.2 - Resistors Cl.14.3 - Capacitors and RC-units Cl.14.7 - Switches Cl.16 - External Flexible cord Cl.18 - Mechanical strength of picture tubes and protection against effects of implosion Annex H - Insulating winding wires
EN 60950-1: 2006+A2:2013	Information technology equipment - Safety - Part 1: General requirements Exclusions: Cl.2.10.5.4 - Partial Discharge Test (on semiconductors) Cl.4.2.8 - Cathode ray tube Cl.4.3.12 - Flammable liquids Cl.4.3.13.2 - Ionizing radiation Cl.4.3.13.3 - Effect of UV radiation on materials Cl.4.3.13.4 - UV Test Cl.4.3.13.5.1 - Laser (including laser diodes) Cl.4.3.13.5.2 - Light emitting diodes (LEDs) Annex Q - Voltage dependent resistors (VDRs) Annex U - Insulating winding wires

EN 62368-1:2020+A11:2020	Audio/video, information, and communication technology equipment - Part 1: Safety requirements Exclusions: Cl.4.1.8 - Liquids, refrigerants and liquid filled components (LFCs) Cl.5.4.12.3 - Compatibility of an insulating liquid Cl.5.6.4.1 - Determination of the overcurrent protective device and circuit (Annex R) Cl.7.2 - Reduction of exposure to hazardous Substances Cl.10 – Radiation Annex C - UV radiation Annex G.5.3.4 - Test for FIW Annex G.7 - Mains supply cords Annex G.8.2.3 - Temporary overvoltage test Annex G.9 - IC current limiters Annex G.15 – 3. Hydrostatic pressure 4. Tubing and fittings compatibility test Annex G.16 - Discharge function Annex J - Insulated winding wires for use without interleaved insulation Annex M.4.2, M.4.4.4 - Charging voltage and current 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 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

IEC 60065:2014	Audio, video and similar electronic apparatus - Safety requirements Exclusions: Cl.6.1- Ionizing Radiation Cl.6.2 - Laser Radiation Cl.6.3 - Light emitting diodes (LEDs) Cl.8.17- Endurance test for wound components Cl.14.2 - Resistors Cl.14.3 - Capacitors and RC-units Cl.14.7 - Switches Cl.16 - External Flexible cord Cl.18 - Mechanical strength of picture tubes and protection against effects of implosion Annex H - Insulating winding wires
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IS 616: 2017	Audio, video and similar electronic apparatus - Safety requirements Exclusions: Cl.6.1- Ionizing Radiation Cl.6.2 - Laser Radiation Cl.6.3 - Light emitting diodes (LEDs)

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IS 13252: 2010 + AMD1: 2013 + AMD2: 2015	Information technology equipment - Safety - Part 1: General requirements Exclusions: Cl.2.10.5.4 - Partial Discharge Test (on semiconductors) Cl.4.2.8 - Cathode ray tube Cl.4.3.12 - Flammable liquids Cl.4.3.13.2 - Ionizing radiation Cl.4.3.13.3 - Effect of UV radiation on materials Cl.4.3.13.4 - UV Test Cl.4.3.13.5.1 - Laser (including laser diodes) Cl.4.3.13.5.2 - Light emitting diodes (LEDs) Annex Q - Voltage dependent resistors (VDRs) Annex U - Insulating winding wires
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UL 60950-1: 2019	Information technology equipment - Safety - Part 1: General requirements Exclusions: Cl.2.10.5.4 - Partial Discharge Test (on semiconductors) Cl.4.2.8 - Cathode ray tube Cl.4.3.12 - Flammable liquids Cl.4.3.13.2 - Ionizing radiation Cl.4.3.13.3 - Effect of UV radiation on materials Cl.4.3.13.4 - UV Test Cl.4.3.13.5.1 - Laser (including laser diodes) Cl.4.3.13.5.2 - Light emitting diodes (LEDs) Annex Q - Voltage dependent resistors (VDRs) Annex U - Insulating winding wires

UL 62368-1:2021	Audio/video, information, and communication technology equipment - Part 1: Safety requirements Exclusions: Cl.4.1.8 - Liquids, refrigerants and liquid filled components (LFCs) Cl.5.4.12.3 - Compatibility of an insulating liquid Cl.5.6.4.1 - Determination of the overcurrent protective device and circuit (Annex R) Cl.7.2 - Reduction of exposure to hazardous Substances Cl.10 – Radiation Annex C - UV radiation Annex G.5.3.4 - Test for FIW Annex G.7 - Mains supply cords Annex G.8.2.3 - Temporary overvoltage test Annex G.9 - IC current limiters Annex G.15 – 1. Hydrostatic pressure 2. Tubing and fittings compatibility test Annex G.16 - Discharge function Annex J - Insulated winding wires for use without interleaved insulation Annex M.4.2, M.4.4.4 - Charging voltage and current 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 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
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EN 60335-1:2023+A11:2023	Household and similar electrical appliances - Safety - Part 1: General requirements Exclusions: Cl.8.1.4 - Measurements of electric charge, Energy discharge measurement in mJ Cl.12 - Charging of metal-ion batteries Cl.19.11.4.7 - Mains signal test (IEC 61000-4-13) Cl.22.16 - Automatic cord reel test apparatus Cl.22.32 - Resistant to ageing test (Oxygen bomb with pressure apparatus) Cl.22.32 - Resistant to ageing test (Methylated spirits) Cl.22.48 (Electric Appliances connected to the water mains – Avoidance of back siphonage and failure of hose-sets) Cl 23.3- Flexing test Cl.30.2.1, 30.2.4 - Horizontal and vertical burning test

	Cl.32.2 - Optical radiation hazard Annex B - Battery-operated appliances, separable batteries and detachable batteries for battery-operated appliances (IEC 60335-1:2020) Annex F - Endurance test for Capacitors Annex H – Switches Annex J - Coated printed circuit boards test Annex R - Software evaluation Annex T - UV-C radiation effect on non-metallic materials Annex U- Evaluation for remote communication through public networks
EN 60335-2-15:2016+A12:2021	Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids Exclusions: Refer General requirements standard IEC 60335-1
EN 60335-2014: 2023 + A11:2023	Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines Exclusions: Refer General requirements standard IEC 60335-1
IEC 60335-1:2020	Household and similar electrical appliances - Safety - Part 1: General requirements Exclusions: Cl.8.1.4 - Measurements of electric charge, Energy discharge measurement in mJ Cl.12 - Charging of metal-ion batteries Cl.19.11.4.7 - Mains signal test (IEC 61000-4-13) Cl.22.16 - Automatic cord reel test apparatus Cl.22.32 - Resistant to ageing test (Oxygen bomb with pressure apparatus) Cl.22.32 - Resistant to ageing test (Methylated spirits) Cl.22.48 (Electric Appliances connected to the water mains – Avoidance of back siphonage and failure of hose-sets) Cl 23.3- Flexing test Cl.30.2.1, 30.2.4 - Horizontal and vertical burning test Cl.32.2 - Optical radiation hazard Annex B - Battery-operated appliances, separable batteries and detachable batteries for battery-operated appliances (IEC 60335-1:2020) Annex F - Endurance test for Capacitors Annex H – Switches Annex J - Coated printed circuit boards test Annex R - Software evaluation Annex T - UV-C radiation effect on non-metallic materials Annex U- Evaluation for remote communication through public networks
IEC 60335-2-14: 2016 + AMD1: 2019	Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines Exclusions:

	Refer General requirements standard IEC 60335-1
IEC 60335-2-15:2012+AMD + AMD2:2018	Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids Exclusions: Refer General requirements standard IEC 60335-1
IS 302-1:2008	Household and similar electrical appliances - Safety - Part 1: General requirements Exclusions: Cl.8.1.4 - Measurements of electric charge, Energy discharge measurement in mJ Cl.12 - Charging of metal-ion batteries Cl.19.11.4.7 - Mains signal test (IEC 61000-4-13) Cl.22.16 - Automatic cord reel test apparatus Cl.22.32 - Resistant to ageing test (Oxygen bomb with pressure apparatus) Cl.22.32 - Resistant to ageing test (Methylated spirits) Cl.22.48 (Electric Appliances connected to the water mains – Avoidance of back siphonage and failure of hose-sets) Cl 23.3- Flexing test Cl.30.2.1, 30.2.4 - Horizontal and vertical burning test Cl.32.2 - Optical radiation hazard Annex B - Battery-operated appliances, separable batteries and detachable batteries for battery-operated appliances (IEC 60335-1:2020) Annex F - Endurance test for Capacitors Annex H – Switches Annex J - Coated printed circuit boards test Annex R - Software evaluation Annex T - UV-C radiation effect on non-metallic materials Annex U- Evaluation for remote communication through public networks
IS 302-2-14: 2009	Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines Exclusions: Refer General requirements standard IEC 60335-1
IS 302-2-15: 2009	Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids Exclusions: Refer General requirements standard IEC 60335-1
UL 60335-1:2016	Household and similar electrical appliances - Safety - Part 1: General requirements Exclusions: Cl.8.1.4 - Measurements of electric charge, Energy discharge measurement in mJ Cl.12 - Charging of metal-ion batteries Cl.19.11.4.7 - Mains signal test (IEC 61000-4-13) Cl.22.16 - Automatic cord reel test apparatus

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IEC 60601-1:1988+AMD1:1991+ AMD2:1995	Medical electrical equipment - Part 1: General requirements for safety Exclusions: Refer General requirements standard IEC 60601-1
IEC 60601-1:2005+AMD1:2012+ AMD2:2020	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance Exclusions: Cl.8.8.4.2 - Resistance to environmental stress Cl.9.5.2 - Cathode ray tube Cl.9.6.2.1 - Audible acoustic energy Cl.9.7.5 - Pressure vessels Cl.10.1 - X-radiation Cl 10.2 – Alpha,beta, gamma, neutron and other particle radiation Cl.10.4 - Lasers Cl.11.2 - Fire prevention Cl.11.3 - Constructional requirements for fire enclosures Cl.11.6.7 - Sterilization Cl.15.4.2 - Temperature and overload control devices Cl.15.4.3.4 - Primary Lithium batteries Annexure A 10.4 - Light emitting diodes (LEDs) Annexure G - Protection against hazards of ignition of flammable anesthetic mixtures Annexure G.4.3 - Prevention of electrostatic charges Annexure L - Insulated winding wires for use without interleaved Insulation
IEC 60601-1-6:2010	Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability Exclusions:

	Refer General requirements standard IEC 60601-1
IEC 60601-1-6: 2010 / AMD1: 2013 + AMD2:2020	Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability/ Exclusions: Cl.6.3.3.2 - Volume of auditory alarm signals and information signals Also Refer General requirements standard IEC 60601-1
IEC 60601-1-8:2003 + AMD1: 2006	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 Exclusions: Cl.6.3.3.2 - Volume of auditory alarm signals and information signals Refer General requirements standard IEC 60601-1
IEC 60601-1-8: 2006 + AMD1: 2012 + AMD2:2020	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 Exclusions: Cl.6.3.3.2 - Volume of auditory alarm signals and information signals Also Refer General requirements standard IEC 60601-1
IEC 60601-1-11:2010	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 Exclusions: Refer General requirements standard IEC 60601-1
IEC 60601-1-11: 2015 + AMD1:2020	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 Exclusions: Refer General requirements standard IEC 60601-1
IEC 60601-2-4:2010/AMD1:2018	Medical electrical equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators. Exclusions: Refer General requirements standard IEC 60601-1
IEC 60601-2-25:2011	Medical electrical equipment – Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs Exclusions: Refer General requirements standard IEC 60601-1

IEC 60601-2-27:2011	Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment Exclusions: Refer General requirements standard IEC 60601-1
IEC 60601-2-37:2007+ AMD1: 2015	Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment Exclusions: Cl.201.11.1.3.1.1 - Simulated use Also Refer General requirements standard IEC 60601-1
IEC 60601-2-47:2012	Medical electrical equipment - Part 2-47: particular Requirements for the basic safety and essential performance of ambulatory electrocardiographic systems Exclusions: Refer General requirements standard IEC 60601-1
IEC 60601-2-49:2011	Medical electrical equipment – Part 2-49: particular Requirements for the basic safety and essential performance of multifunction patient monitoring equipment Exclusions: Refer General requirements standard IEC 60601-1
IEC 80601-2-12:2020	Medical electrical equipment - Part 2-12: Particular requirements for the basic safety and essential performance of critical care ventilators Exclusions: Refer General requirements standard IEC 60601-1
IEC 80601-2-13:2011+ AMD1: 2015 + AMD2:2018	Medical electrical equipment - Part 2-13: Particular requirements for basic safety and essential performance of an anesthetic workstation Exclusions: Refer General requirements standard IEC 60601-1
ISO 80601-2-12:2011	Medical electrical equipment - Part 2-12: Particular requirements for the basic safety and essential performance of critical care ventilators Exclusions: Refer General requirements standard IEC 60601-1
ISO 80601-2-12:2020	Medical electrical equipment - Part 2-12: Particular requirements for the basic safety and essential performance of critical care ventilators Exclusions: Refer General requirements standard IEC 60601-1
ISO 80601-2-13:2022	Medical electrical equipment - Part 2-13: Particular requirements for basic safety and essential performance of an anesthetic workstation Exclusions: Refer General requirements standard IEC 60601-1

IEC 80601-2-30:2009 / AMD1: 2013	Medical Electrical Equipment Part 2-30 Particular Requirements for Basic Safety and Essential Performance of Automated Non-Invasive Sphygmomanometers Exclusions: Refer General requirements standard IEC 60601-1
IEC 80601-2-30:2018	Medical Electrical Equipment Part 2-30 Particular Requirements for Basic Safety and Essential Performance of Automated Non-Invasive Sphygmomanometers Exclusions: Refer General requirements standard IEC 60601-1
ISO 80601-2-61:2011	Medical electrical equipment Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment Exclusions: Refer General requirements standard IEC 60601-1
ISO 80601-2-61:2017	Medical electrical equipment Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment Exclusions: Refer General requirements standard IEC 60601-1
Electrical Equipment for Measurement	
IEC 61010-1:2010/AMD1:2016	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements Exclusions: Cl .12.2.1 - Ionizing radiation Cl .12.3 - UV Radiation Cl .12.5.1 - Sound pressure level Cl .12.5.2- Ultrasonic pressure
IEC 61010-2:101:2015	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment Exclusions: Refer General requirements standard IEC 61010-1
IEC 61010-2:101:2018	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment Exclusions: Refer General requirements standard IEC 60601-1
Luminaires	
IEC 60598-1:2020	Luminaires - Part 1: General requirements and tests Exclusions for IEC 60598-1 Cl. 4.24 – Photobiological Hazards Cl. 4.11.6 - Electro-mechanical contact system.

IEC 60598-2-1:2020	Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminaires
IEC 60598-2-2:2023	Luminaires - Part 2-2: Particular requirements - Recessed luminaires and recessed air-handling luminaires
IEC 60598-2-3:2002+AMD1:2011	Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting
IEC 60598-2-4:2017	Luminaires - Part 2-4: Particular requirements - Portable general-purpose luminaires
IEC 60598-2-5:2015	Luminaires - Part 2-5: Particular requirements – Floodlights Exclusions:
IEC/EN 61347-1: 2015 + AMD1: 2017	Lamp control gear - Part 1: General and safety requirements
IEC 61347-2-13:2014+A1:2016	Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules
IEC 62031:2018	LED modules for general lighting - Safety specifications Exclusions for IEC 62031 Cl 21: Photobiological Hazards
IEC 62560:2011 + AMD1:2015 IS 16102:2012+A1:2015+A2:2015+A3:2020	Self - Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements Exclusion for IEC 62560 Cl 17- Photobiological safety
IS 10322(Part 1)	Luminaires - Part 1: General requirements and tests Exclusions for IS 10322 Part 1 Cl. 4.24 – UV radiation Cl. 4.11.6 - Electro-mechanical contact system
IS 10322 (Part 5-Sec 1)	Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminaires Exclusions for IS 10322 Part 5 Cl. 17 - Photometric Test
IS 10322 (Part 5-Sec 2)	Luminaires - Part 2-2: Particular requirements - Recessed luminaires and recessed air-handling luminaires Exclusions for IS 10322 Cl. 17 - Photometric Test
IS 10322 (Part 5-Sec 3)	Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting Exclusions for IS 10322 Cl. 17 - Photometric Test
IS 10322 (Part 5-Sec 4)	Luminaires - Part 2-4: Particular requirements - Portable general-purpose luminaires Exclusions for IS 10322 Cl. 17 - Photometric Test
IS 10322 (Part 5-Sec 5)	Luminaires - Part 2-5: Particular requirements – Floodlights Exclusions:

	Exclusions for IS 10322 Cl. 17 - Photometric Test
IS 15885: Part 1 Amd.1: 2015	Lamp control gear - Part 1: General and safety requirements
IS 15885: Part 2: Sec 13: 2012	Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules
IS 16102:2012+A1:2015+A2:2015+A3:2020	Self - Ballasted LED Lamps for General Lighting Services Part 1 Safety Requirements
IS 16103: Part 1 Amd. 1: 2014	LED modules for general lighting - Safety specifications
Transformers and UPS	
EN 61558-1:2019	Safety of transformers, reactors, power supply units and combinations thereof - Part 1: General requirements and tests Exclusions: 18.3.1 - Partial Discharge Test 19.9 - Insulating material separating input and output windings 19.12.3 - Insulated winding wires 20 - Components
EN 62040-1:2019+A1:2023	Uninterruptible power systems (UPS) - Part 1: Safety requirements Exclusions: Cl 4.3 Short circuit and overload protection
IEC 61558-1:2021	Safety of transformers, reactors, power supply units and combinations thereof - Part 1: General requirements and tests Exclusions: 18.3.1 - Partial Discharge Test 19.9 - Insulating material separating input and output windings 19.12.3 - Insulated winding wires 20 - Components
IEC 62040-1:2017+AMD1: 2021+ AMD2:2022	Uninterruptible power systems (UPS) - Part 1: Safety requirements Exclusions: Cl 4.3 Short circuit and overload protection
Switches, Switchgear and Control Gear	
EN 60669-1:2018	Switches for household and similar fixed-electrical installations - Part 1: General requirements Exclusions: 1.Cl. 12.2.4,12.2.5,12.3.4,12.3.11,12.3.12 - Terminals 2.Cl. 13.2,13.5 - Constructional requirements 3.Cl. 14.6,14.3 - Mechanism 4.Cl.18 - Making and breaking capacity 5.Cl.19 - Normal operation

	6.Cl. 22.5 to 22.7 - Inspections and chemical tests on metals of current carrying parts
IEC 60669-1:2017	Switches for household and similar fixed-electrical installations - Part 1: General requirements Exclusions: 1.Cl. 12.2.4,12.2.5,12.3.4,12.3.11,12.3.12 - Terminals 2.Cl. 13.2,13.5 - Constructional requirements 3.Cl. 14.6,14.3 - Mechanism 4.Cl.18 - Making and breaking capacity 5.Cl.19 - Normal operation 6.Cl. 22.5 to 22.7 - Inspections and chemical tests on metals of current carrying parts
Environmental Testing	
ASTM D4169-23	Standard Practice for Performance Testing Of Shipping Containers And Systems
BS EN 50125-1: 2014	Railway applications- Environmental conditions for equipment Part 1: Rolling stock and on-board equipment
BS EN 50125-2: 2002	Railway applications-Environmental conditions for equipment Part 2: Fixed electrical installations
BS EN 50125-3: 2003	Railway applications-Environmental conditions for equipment Part 3: Equipment for signaling and telecommunications
BS EN 50155:2021	Railway Applications-Rolling Stock-Electronic Equipment
EN IEC 60068-2-14: 2023	Environmental testing - Part 2-14: Tests - Test N: Change of temperature
EN 60068-2-27: 2009	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock
EN 60068-2-78:2013	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state
EN 60529: 2001 +A2: 2013	Degrees of protection provided by enclosures (IP Code)
EN 60721-2-1: 2014	IEC 60721-2-1: 2013/ EN 60721-2-1: 2014
ETSI EN 300019-2-1 V2.3.1: 2017	Environmental Engineering (EE); Environmental conditions and environmental tests for telecommunications equipment; Part 2-1: Specification of environmental tests; Storage
ETSI EN 300019-2-2 V2.4.1: 2017	Environmental Engineering (EE); Environmental conditions and environmental tests for telecommunications equipment; Part 2-2: Specification of environmental tests; Transportation
ETSI EN 300019-2-3 V2.5.1: 2020	Environmental Engineering (EE); Environmental conditions and environmental tests for telecommunications equipment; Part 2-3:

	Specification of environmental tests; Stationary use at weather protected locations
ETSI EN 300019-2-4 V2.5.1: 2018	Environmental Engineering (EE); Environmental conditions and environmental tests for telecommunications equipment; Part 2-4: Specification of environmental tests; Stationary use at non-weather protected locations
ETSI EN 300019-2-5 V3.1.1: 2021	Environmental Engineering (EE); Environmental conditions and environmental tests for telecommunications equipment; Part 2: Specification of environmental tests; Sub-part 5: Ground vehicle installations
ETSI EN 300019-2-6 V3.0.0: 2023	Environmental Engineering (EE); Environmental conditions and environmental tests for telecommunications equipment; Part 2-6: Specification of environmental tests; Ship environments
GR-63-CORE-2006	NEBS™ Requirements: Physical Protection
IEC 60068-2-14: 2023	Environmental testing - Part 2-14: Tests - Test N: Change of temperature
IEC 60068-2-17:2023	Environmental testing - Part 2-17: Tests - Test Q: Sealing
IEC 60068-2-27: 2008	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock
IEC 60068-2-78:2012	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state
IEC 60529:1989+AMD1:1999+ AMD2:2013	Degrees of protection provided by enclosures (IP Code)
IEC 60571: 2012	Railway applications - Electronic equipment used on rolling stock
IEC 60721-2-1: 2013	IEC 60721-2-1: 2013/ EN 60721-2-1: 2014
IEC 60945: 2002	Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results
IEC 62498-1-2010	Railway applications - Environmental conditions for equipment - Part 1: Equipment on board rolling stock
IEC-EN 60068-2-1: 2007	Environmental testing - Part 2-1: Tests - Test A: Cold
IEC-EN 60068-2-2: 2007	Environmental testing - Part 2-2: Tests - Test B: Dry heat
IEC-EN 60068-2-6: 2007	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)
IEC-EN 60068-2-13: 2021	Environmental testing - Part 2-13: Tests - Test M: Low air pressure

IEC-EN 60068-2-18:2017	Environmental testing - Part 2-18: Tests - Test R and guidance: Water
IEC-EN 60068-2-30:2005	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)
IEC-EN 60068-2-31:2008	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens
IEC-EN 60068-2-38:2021	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test
IEC-EN 60068-2-53:2010	Environmental testing - Part 2-53: Tests and guidance - Combined climatic (temperature/humidity) and dynamic (vibration/shock) tests
IEC-EN 60068-2-55:2013	Environmental testing - Part 2-55: Tests - Test Ee and guidance - Loose cargo testing including bounce
IEC-EN 60068-2-64:2008+ Amd1:2019	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance
IEC-EN 60068-2-80:2005	Environmental testing - Part 2-80: Tests - Test Fi: Vibration - Mixed mode
IEC-EN 60721-2-3: 2014	Classification of environmental conditions - Part 2-3: Environmental conditions appearing in nature - Air pressure
IEC-EN 60721-2-9: 2014	Classification of environmental conditions - Part 2-9: Environmental conditions appearing in nature - Measured shock and vibration data - Storage, transportation, and in-use
IEC-EN 61373: 2010	Railway applications - Rolling stock equipment - Shock and vibration tests
IS 2175:1988 RA2020	Specification for heat sensitive fire detectors for use in automatic fire alarm system
IS 9000 Part 3: Sec 1-5: 1977 RA 2019	IS 9000 Part 3: Sec 1-5: 1977 RA 2019
IS 9000 Part 4: 2020	IS 9000 Part 4: 2020
IS 9000 Part 5: Sec 1-2: 1981 RA 2019	IS 9000 Part 5: Sec 1-2: 1981 RA 2019
IS 9000 Part 7 Sec 1: 2018 RA 2021	Basic Environmental Testing Procedures for Electronic and Electrical Items Part 7 Impact Test Section 1 Shock (Test Ea) (Second Revision)
IS 9000 Part 7 Sec 3: 2019 RA 2022	Environmental Testing Part 7 Tests Section 3 Test Ec: Rough handling shocks, primarily for equipment-types specimens (First Revision)
IS 9000 Part 13: 1981 RA 2019	IS 9000 Part 13: 1981 RA 2019

IS/IEC 60068-2-1: 2007	Environmental Testing - Part 2 Tests - Section 1 Test A: Cold
IS/IEC 60068-2-6: 2007	Environmental Testing - Part 2 Tests - Section 6 Test Fc: Vibration (sinusoidal)
IS/IEC 60068-2-17: 1994	Basic environmental testing procedures - Part 2: Tests Section - 17: Test Q: Sealing
IS/IEC 60068-2-38: 2021	Environmental testing –Part 2-38: Tests – Test Z/AD: Composite temperature/humidity cyclic test
IS/IEC 60529: 2001 RA2019+ Amd1: 2024	Degrees of protection provided by enclosures (IP Code)
ISO 2873: 2000	Packaging- Complete, filled transport packages and unit loads- Low pressure test
ISO 16750-3: 2023	Road vehicles-Environmental conditions and testing for electrical and electronic equipment Part 3: Mechanical loads
ISO 16750-4: 2023	Road vehicles-Environmental conditions and testing for electrical and electronic equipment-Part 4: Climatic loads
ISO 20653: 2023	Road vehicles — Degrees of protection (IP code) — Protection of electrical equipment against foreign objects, water and access
ISTA 1A: 2014	Non-Simulation Integrity Performance Test Procedure Exclusion: Sequence 3 Shock: Incline impact (Conbur) Sequence 3 Shock: Horizontal Impact
ISTA 2A: 2011	Partial Simulation Performance Test Procedure Exclusion: Sequence 3 Compression Test Sequence 5 Shock: Incline impact (Conbur) Sequence 5 Shock: Horizontal Impact
ISTA 3A: 2018	General Simulation Performance Test Procedure Sequence 11: Leak Test
JSS 55555: 2020	Environmental test methods for Electronic and Electrical Equipment
MIL-HDBK-310: 1997	Global Climatic data for developing military products
MIL-HDBK-2164A: 1996	Environmental Stress screening Process for Electronic equipment
MIL-STD-202H: 2015	Test method Standard Electronic and electrical component parts
MIL-STD-331D	Fuzes, Ignition Safety Devices And Other Related Components, Environmental And Performance Tests For
MIL-STD-810G w/Change1: 2014 (withdrawn)	Environmental Engineering Considerations and Laboratory Tests
MIL-STD-810H: 2019	Environmental Engineering Considerations and Laboratory Tests

MIL-STD-883L:2019	Test method Standard Microcircuits
QM-333: 2010	Standard For Environmental Testing Of Telecommunication Equipment
RTCA DO 160G: 2010	Environmental conditions and Test Procedures for Airborne Equipment
EMI/EMC Testing	
AIS-004 (Part 3) (Rev.1)	Automotive Vehicles – Requirements For Electromagnetic Compatibility
ANCI C63.10:2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
ANCI C63.26:2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
ANSI/AAMI/IEC 60601-1-2:2014+A1:2021	Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral Standard: Electromagnetic disturbances – Requirements and tests
AS / NZS CISPR 32:2015+A1:2020	Electromagnetic compatibility of multimedia equipment - Emission requirements
AS / NZS CISPR 35	Electromagnetic Compatibility of Multimedia Equipment—Requirements for Immunity
CISPR 11:2024 Ed 7.0	Industrial, scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement.
CISPR 12:2007+A1:2009 Ed 6.1	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers
CISPR 14-1:2020 Ed 7.0	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
CISPR 14-2:2020 Ed 3.0	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard
CISPR 15:2018+AMD1:2024	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
CISPR 16-2-1:2014+A1:2017 Ed 3.1	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements

CISPR 16-2-3:2016+A1:2019+A2:2023 Ed 4.2	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements
CISPR 25:2021	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers
CISPR 32:2015+A1:2019 Ed 2.1	Electromagnetic compatibility of multimedia equipment - Emission requirements
CISPR 35:2016 Ed 1.0	Electromagnetic compatibility of multimedia equipment - Immunity requirements
ECE R10 Rev. 5	Concerning the adoption of Uniform Technical Prescriptions for wheeled vehicles, Equipment and parts which can be fitted and/or be Used on wheeled vehicles and the conditions for Reciprocal Recognition of Approvals Granted on the basis of these Prescriptions.
EN 15194:2017	Cycles - Electrically power assisted cycles - EPAC Bicycles
EN 50121-1:2017	Railway applications - Electromagnetic compatibility - Part 1: General
EN 50121-2: 2017	Railway applications - Electromagnetic compatibility - Part 2: Emission of the whole railway system to the outside world
EN 50121-3-1:2017+A1:2019	Railway applications - Electromagnetic compatibility - Part 3-1: Rolling stock - Train and complete vehicle
EN 50121-3-2:2016+A1:2019	Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock - Apparatus
EN 50121-4:2016+A1:2019	Railway applications - Electromagnetic compatibility - Part 4: Emission and immunity of the signaling and telecommunications apparatus
EN 50121-5:2017+A1:2019	Railway applications - Electromagnetic compatibility - Part 5: Emission and immunity of fixed power supply installations and apparatus
EN 50155:2021	Railway applications - Rolling stock - Electronic equipment
EN 50270:2015	Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases, toxic gases, or oxygen
EN 55011:2016+A1:2017+A2:2021	Industrial, scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement.

EN 55014-1:2021	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
EN 55014-2:2021	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Part 2: Immunity - Product family standard
EN 55015: 2019+A11:2020	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 55025:2022	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers
EN 55032:2015+A1:2020	Electromagnetic compatibility of multimedia equipment - Emission requirements
EN 55035:2017+A1:2020	Electromagnetic compatibility of multimedia equipment - Immunity requirements
EN 60034:2018	Rotating electrical machines - Part 1: Rating and performance Inclusion: Cl. 13.0 EMC requirements
EN 60092-504:2016	Electrical installations in ships - Part 504: Automation, control and instrumentation
EN 60255-1:2022	Measuring relays and protection equipment - Part 1: Common requirements Inclusion: Cl. 6.15 EMC requirements
EN 60255-1:2022	Measuring relays and protection equipment - Part 1: Common requirements
EN 60255-26:2013	Measuring relays and protection equipment - Part 26: Electromagnetic compatibility requirements
EN 60255-26:2013	Measuring relays and protection equipment - Part 26: Electromagnetic compatibility requirements
EN 60335-1:2023+A1:2023	Household and similar electrical appliances - Safety - Part 1: General requirements Inclusion: Cl. 19.11.4 EMC requirements
EN 60571:2016	Railway applications - Electronic equipment used on rolling stock
EN 60601-1-2:2015+A1:2021	Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral Standard: Electromagnetic disturbances – Requirements and tests
EN 60669-2-1:2022+A1:2022	Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic control devices
EN 60730-1:2016+A1:2019+A2:2022	Automatic electrical controls - Part 1: General requirements
EN 60730-2-9:2019+A1:2019+A2:2020	Amendment 2 - Automatic electrical controls - Part 2-9: Particular requirements for temperature sensing control

EN 60945:2002	Maritime navigation and radiocommunication equipment and systems – General requirements – Methods of testing and required test results
EN 60947:2021	Low-voltage switchgear and controlgear - Part 1: General rules Inclusion: Cl. 8.3 EMC requirements
EN 60974-10:2021	Arc welding equipment - Part 10: Electromagnetic compatibility (EMC) requirements
EN 61000-3-2:2019+A1:2021+A2:2024	Electromagnetic compatibility (EMC) Limits. Limits for harmonic current emissions (equipment input current ≤16 A per phase)
EN 61000-3-3:2013+A1:2019+A2:2021	Electromagnetic compatibility (EMC) 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
EN 61000-3-11: 2019	Electromagnetic compatibility (EMC) - Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤ 75 A and subject to conditional connection
EN 61000-3-12:2011	Electromagnetic compatibility (EMC) – Part 3-12: Limits – Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤75 A per phase
EN 61000-4-2:2009	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test
EN 61000-4-3:2020	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques – Radiated, radio-frequency electromagnetic field immunity test.
EN 61000-4-4: 2012	Part 4: Testing and measurement techniques - Section 4: Electrical fast transient/burst immunity test
EN 61000-4-5:2014+A1:2017	Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test
EN 61000-4-6:2023	Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields
EN 61000-4-8:2009	Electromagnetic compatibility (EMC) – Part 4-8: Testing and measurement techniques – Power frequency magnetic field immunity test
EN 61000-4-9:2016	Electromagnetic compatibility (EMC) – Part 4-9: Testing and measurement techniques – Impulse magnetic field immunity test

EN 61000-4-11:2020	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests
EN 61000-4-12:2017	Electromagnetic compatibility (EMC) – Part 4-12: Testing and measurement techniques – Ring wave immunity test
EN 61000-4-13:2002+A1:2009+A2 2015	Electromagnetic compatibility (EMC) - Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signaling at a.c. power port, low frequency immunity tests
EN 61000-4-28:1999+A1:2001+A2:2009	Electromagnetic compatibility (EMC) – Part 4-28: Testing and measurement techniques – Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase
EN 61000-4-29:2001	Electromagnetic compatibility (EMC) – Part 4-29: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests
EN 61000-4-34:2007+A1:2009	Electromagnetic compatibility (EMC) – Part 4-34: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current more than 16 A per phase
EN 61000-6-1:2019	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments
EN 61000-6-2:2019	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity standard for industrial environments
EN 61000-6-3:2021	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for equipment in residential environments
EN 61000-6-4:2019	Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments
EN 61131-2:2007	Industrial-process measurement and control - Programmable controllers - Part 2: Equipment requirements and tests Inclusion: Cl. 7.0 EMC requirements
EN 61326-1:2021	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements
EN 61326-2-1:2021	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
EN 61326-2-2:2021	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
EN 61326-2-3:2021	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
EN 61326-2-4:2021	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
EN 61326-2-5:2021	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
EN 61326-2-6:2021	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-6: Particular requirements – In vitro diagnostic (IVD) medical equipment
EN 61326-3-2:2018	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - Industrial applications with specified electromagnetic environment
EN 61340-3-1:2007	Electrostatics - Part 3-1: Methods for simulation of electrostatic effects - Human body model (HBM) electrostatic discharge test waveforms
EN 61439-1:2021	Low-voltage switchgear and controlgear assemblies - Part 1: General rules Inclusion: Cl. 9.4 EMC requirements
EN 61547:2023	Equipment for general lighting purposes - EMC immunity requirements
EN 61800-3:2023	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods for PDS and machine tools
EN 61851-1:2019	Electric vehicle conductive charging system - Part 1: General requirements
EN 61851-21-1: 2017	Electric vehicle conductive charging system - Part 21-1: Electric vehicle on-board charger EMC requirements for conductive connection to an AC/DC supply
EN 61851-21-2:2021	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems

EN 62040-2:2006	Uninterruptible power systems (UPS) – Part 2: Electromagnetic compatibility (EMC) requirements
EN 62040-2:2018	Uninterruptible power systems (UPS) – Part 2: Electromagnetic compatibility (EMC) requirements
EN 62236-3-1:2017	Railway applications - Electromagnetic compatibility - Part 3-1: Rolling stock - Train and complete vehicle
EN 62236-3-2:2015	Railway applications – Electromagnetic compatibility – Part 3-2: Rolling stock – Apparatus
ETSI 301 489-50: V2.2.2	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 Electro Magnetic Compatibility. Inclusion Clause 7 EMC Requirements
ETSI EN 300 220:V3.2.1:2018	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
ETSI EN 300 328:V2.2.2:2019-07	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access
ETSI EN 300 330:V2.1.1:2017	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
ETSI EN 300 440: V2.2.1 (2018-07)	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access
ETSI EN 300 386 V2.2.0	Telecommunication network equipment; Harmonised Standard for ElectroMagnetic Compatibility (EMC) requirements
ETSI EN 301 489-1 V2.2.3	Electro Magnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility
ETSI EN 301 489-3 V2.3.2	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 covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
ETSI EN 301 489-17 V3.2.4	ElectroMagnetic Compatibility (EMC)standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility

ETSI EN 301 489-19 V2.1.1	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
ETSI EN 301 489-24 V1.5.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility
ETSI EN 301 489-34 V.2.1.1	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 6 of Directive 2014/30/EU
ETSI EN 301 489-52 V1.2.1	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
ETSI EN 301 489-54 V1.0.1	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility
ETSI EN 301 893:V2.1.1:2017	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access
ETSI EN 301 908:V15.1.1:2021-09	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
ETSI EN 302 208:V3.4.1:2023	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
ETSI EN 302 502:V2.1.1:2017	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access
FCC KDB 558074:2019	Guidance for compliance measurements on digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the fcc rules
FCC KDB 789033:2017	Guidelines for compliance testing of unlicensed national information infrastructure (u-nii) devices part 15, subpart e

FCC Part 2:2024	GSM, WCDMA & 4G LTE
FCC Part 22:2024	GSM, WCDMA & 4G LTE
FCC Subpart B	Unintentional Radiators
FCC Subpart C 15.247:2024	Intentional Radiators of 2.4GHz
FCC Subpart E 15.407:2024	Intentional Radiators of 5GHz
IEC 60034:2024 Ed 1.0	Rotating electrical machines - Part 1: Rating and performance Inclusion: Cl. 13.0 EMC requirements
IEC 60092-504:2016 Ed 4.0	Electrical installations in ships - Part 504: Automation, control and instrumentation
IEC 60255-1:2022 Ed 2.0	Measuring relays and protection equipment - Part 1: Common requirements Inclusion: Cl. 6.15 EMC requirements
IEC 60255-1:2022 Ed 2.0	Measuring relays and protection equipment - Part 1: Common requirements
IEC 60255-26:2023 Ed 4.0	Measuring relays and protection equipment - Part 26: Electromagnetic compatibility requirements
IEC 60255-26:2023 Ed 4.0	Measuring relays and protection equipment - Part 26: Electromagnetic compatibility requirements
IEC 60335-1:2020 Ed 2.0	Household and similar electrical appliances - Safety - Part 1: General requirements Inclusion: Cl. 19.11.4 EMC requirements
IEC 60571:2012 Ed 3.0	Railway applications - Electronic equipment used on rolling stock
IEC 60601-1-2:32014+A1:2020 Ed 4.1	Medical electrical equipment – Part 1-2: General requirements for basic safety and essential performance – Collateral Standard: Electromagnetic disturbances – Requirements and tests
IEC 60669-2-1:2021 Ed 5.0	Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic control devices
IEC 60730-1:2022 Ed 6.0	Automatic electrical controls - Part 1: General requirements
IEC 60730-2-9:2015+A1:2018+A2:2020 Ed 4.2	Amendment 2 - Automatic electrical controls - Part 2-9: Particular requirements for temperature sensing control
IEC 60945:2002 Ed 4.0	Maritime navigation and radiocommunication equipment and systems – General requirements – Methods of testing and required test results
IEC 60947:2024 Ed 1.0	Low-voltage switchgear and controlgear - Part 1: General rules Inclusion: Cl. 8.3 EMC requirements
IEC 60974-10:2020 Ed 4.0	Arc welding equipment - Part 10: Electromagnetic compatibility (EMC) requirements

IEC 61000-3-2:2018+A1:2020+A2:2024 Ed 5.2	Electromagnetic compatibility (EMC) Limits. Limits for harmonic current emissions (equipment input current ≤16 A per phase)
IEC 61000-3-3:2013+A1:2017+A2:2021 Ed 3.2	Electromagnetic compatibility (EMC) 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
IEC 61000-3-11: 2017 2.0	Electromagnetic compatibility (EMC) - Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤ 75 A and subject to conditional connection
IEC 61000-3-12:2011+A1:2021 Ed 2.1	Electromagnetic compatibility (EMC) – Part 3-12: Limits – Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤75 A per phase
IEC61000-4-2:2008 Ed 2.0	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test
IEC 61000-4-3:2020 Ed 4.0	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques – Radiated, radio-frequency electromagnetic field immunity test.
IEC 61000-4-4:2012 Ed 3.0	Part 4: Testing and measurement techniques - Section 4: Electrical fast transient/burst immunity test
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IEC 61000-4-6:2023 Ed 5.0	Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields
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