



INTERNATIONAL
ACCREDITATION
SERVICE®

CERTIFICATE OF ACCREDITATION

This is to attest that

UL-CCIC COMPANY LIMITED GUANGZHOU BRANCH

RM 101, 401, BLOCK A, R&D BUILDING, RM 101, 201, 301, 401, BLOCK B, ELECTRONIC BUILDING,
NO.8 NANYUN ER ROAD, HUANGPU DISTRICT
GUANGZHOU, GUA 510670, CHINA

Testing Laboratory TL-472

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories as well as the FDA ASCA Program specifications*, 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 December 22, 2024



International Accreditation Service
Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

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Accredited to ISO/IEC 17025:2017

Effective Date December 22, 2024

FDA ASCA Program

FDA ASCA Program Scope

| Basic Safety and Essential Performance of Medical Electrical Equipment, Medical Electrical Systems and Laboratory Medical Equipment | |
|---|--|
| ANSI AAMI ES60601-1:2005/(R)2012 & A1:2012, C1:2009/(R)2012 & A2:2010/(R)2012 (Cons. Text) [Incl. AMD2:2021] [19-46] | Medical electrical equipment - Part 1: General requirements for basic safety and essential performance (IEC 60601-1:2005, MOD) [Including Amendment 2 (2021)] |
| ANSI AAMI HA60601-1-11:2015 [Including AMD1:2021] [19-47] | Medical Electrical Equipment -- Part 1-11: General requirements for basic safety and essential performance -- Collateral Standard: Requirements for medical electrical equipment and medical electrical equipment and medical electrical systems used in the home healthcare environment (IEC 60601-1-11:2015 MOD) [Including Amendment1 (2021)] |
| ANSI AAMI IEC 60601-1-8:2006 and A1:2012 [Including AMD 2:2021] [5-131] | 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 [Including Amendment 2 (2021)] |
| ANSI AAMI IEC 60601-1-12:2016 [Including AMD 1:2021] [19-39] | Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency [Including Amendment 1(2021)] |
| ANSI AAMI IEC 60601-2-25:2011/(R)2016 [3-105] | Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs |
| ANSI AAMI IEC 60601-2-27:2011(R)2016 [3-126] | Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment |
| ANSI AAMI IEC 60601-2-47:2012/(R)2016 [3-155] | Medical electrical equipment -- Part 2-47: Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems |

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| ANSI AAMI IEC 80601-2-30:2018 [3-123] | Medical electrical equipment - Part 2-30: Particular requirements for basic safety and essential performance of automated type non-invasive sphygmomanometers |
| ANSI AAMI 80601-2- 77:2020 [6-438] | Medical electrical equipment - Part 2-77: Particular requirements for the basic safety and essential performance of robotically assisted surgical equipment |
| ANSI UL 61010-1 3rd Ed dated May 12 2012 with revision through July 19 2019 [19-41] | Standard for Safety for Electrical Equipment For Measurement Control and Laboratory Use; Part 1: General Requirements |
| IEC 60601-1 Edition 3.2 2020-08 CONSOLIDATED VERSION [19-49] | Medical electrical equipment - Part 1: General requirements for basic safety and essential performance - Note: This standard is recognized with relevant US national differences applied see references #1 and #2 in the Relevant FDA Guidance and/or Supportive Publication section below. |
| IEC 60601-1-6 Edition 3.2 2020-07 CONSOLIDATED VERSION [5-132] | Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability |
| IEC 60601-1-8 Edition 2.2 2020-07 CONSOLIDATED VERSION [5-131] | 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 |
| IEC 60601-1-11 Edition 2.1 2020-07 CONSOLIDATED VERSION [19-38] | 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 |
| IEC 60601-1-12 Edition 1.1 2020-07 CONSOLIDATED VERSION [19-39] | Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment |
| IEC 60601-2-10 Edition 2.1 2016-04 [17-16] | Medical electrical equipment - Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators |
| IEC 60601-2-18: Edition 3.0 2009-08 [9-114] | Medical electrical equipment - Part 2-18: Particular requirements for the basic safety and essential performance of endoscopic equipment |
| IEC 60601-2-25 Edition 2.0 2011-10 [3-105] | Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs |
| IEC 60601-2-27 Edition 3.0 2011-03 [3-126] | Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment [Including: Corrigendum 1 (2012)] |
| IEC 60601-2-34 Edition 3.0 2011-05 [3-115] | Medical electrical equipment - Part 2-34: Particular requirements for the basic safety, including essential performance, of invasive blood pressure monitoring equipment |

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| IEC 60601-2-37 Edition 2.1 2015 [12-293] | Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment |
| IEC 60601-2-47 Edition 2.0 2012-02 [3-155] | Medical electrical equipment - Part 2-47: Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems |
| IEC 61010-1 Edition 3.1 2017-01 CONSOLIDATED VERSION [19-34] | Safety requirements for electrical equipment for measurement control and laboratory use – Part 1: General requirements |
| IEC 80601-2-30: Edition 2.0 2018-03 [3-123] | Medical electrical equipment - Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers |
| IEC 80601-2-60 Edition 2.0 2019-06 [4-262] | Medical electrical equipment - Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment |
| IEC 80601-2-77 Edition 1.0 2019-07 [6-438] | Medical electrical equipment - Part 2-77: Particular requirements for the BASIC SAFETY and essential performance of ROBOTICALLY ASSISTED SURGICAL EQUIPMENT |
| IEC 80601-2-78 Edition 1.0 2019-07 [16-232] | Medical electrical equipment - Part 2-78: Particular requirements for basic safety and essential performance of medical robots for rehabilitation assessment compensation or alleviation |
| ISO 80601-2-55 Second edition 2018-02 [1-140] | Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors |
| ISO 80601-2-56 Second edition 2017-03 [6-421] | Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement. [Including: Amendment 1 (2018)]. |
| ISO 80601-2-61 Second edition 2017-12 (Corrected version 2018-02) [1-139] | Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment |
| ISO 80601-2-69 Second edition 2020-11 [1-148] | Medical electrical equipment - Part 2-69: Particular requirements for the basic safety and essential performance of oxygen concentrator equipment |

Regular Scope

| Medical Equipment | |
|---------------------|---|
| ANSI AAMI 60601-1-8 | 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 |
| ANSI/AAMI ES60601-1 | Medical electrical equipment - Part 1: General requirements for basic safety and essential performance |

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| ANSI AAMI HA 60601-1-11 | 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 |
| ANSI AAMI IEC 60601-2-25 | Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs |
| ANSI AAMI IEC 60601-2-27 | Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment |
| ANSI AAMI IEC 60601-2-47 | Medical electrical equipment - Part 2-47: Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems |
| ANSI AAMI IEC 80601-2-30 | Medical electrical equipment - Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers |
| ANSI AAMI/IEC/EN 60601-1-12 | Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency [Including Amendment 1(2021)] |
| ANSI AAMI/IEC/EN 80601-2-77 | Medical electrical equipment - Part 2-77: Particular requirements for the BASIC SAFETY and essential performance of ROBOTICALLY ASSISTED SURGICAL EQUIPMENT |
| ASTM E1112-00 | Standard Specification for Electronic Thermometer for Intermittent Determination of Patient Temperature |
| ASTM E1965-98 | Standard Specification for Infrared Thermometers for intermittent Determination of Patient Temperature |
| BSI/BS/DIN/CEN/EN/CS A/CAN/ISO 10079-1 | Medical suction equipment —Part 1: Electrically powered suction equipment |
| BSI/BS/DS/DIN/SNV/EN /ISO 10079-4 | Medical suction equipment —Part 4: General requirements |
| CAN/CSA C22.2 NO. 60601-1 | Medical electrical equipment – Part 1: General requirements for basic safety and essential performance |
| EN/ISO 80601-2-55 | Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors |
| EN/ISO 80601-2-56 | Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement |
| EN/ISO 80601-2-61 | Medical electrical equipment - Part 2-61: Particular requirements for basic safety and essential performance of pulse oximeter equipment |
| IEC 61010-1 | Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements |
| IEC 80601-2-30 | Medical electrical equipment - Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers |
| IEC/EN 60601-1 | Medical electrical equipment – Part 1: General requirements for basic safety and essential performance |
| IEC/EN 60601-1-6 | Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability |
| IEC/EN 60601-1-8 | 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 |

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| IEC/EN 60601-1-11 | 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 |
| IEC/EN 60601-1-12 | Medical electrical equipment – Part 1-12: General requirements for basic safety and essential performance – Collateral standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment |
| IEC/EN 60601-2-10 | Medical electrical equipment – Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators |
| IEC/EN 60601-2-18 | Medical electrical equipment - Part 2-18: Particular requirements for the basic safety and essential performance of endoscopic equipment |
| IEC/EN 60601-2-24 | Medical electrical equipment –Part 2-24: Particular requirements for the basic safety and essential performance of infusion pumps and controllers |
| IEC/EN 60601-2-25 | Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs |
| IEC/EN 60601-2-26 | Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs |
| IEC/EN 60601-2-27 | Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment |
| IEC/EN 60601-2-34 | Medical electrical equipment - Part 2-34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment |
| IEC/EN 60601-2-37 | Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment |
| IEC/EN 60601-2-40 | Medical electrical equipment - Part 2-40: Particular requirements for the basic safety and essential performance of electromyographs and evoked response equipment |
| IEC/EN 60601-2-47 | Medical electrical equipment - Part 2-47: Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems |
| IEC/EN 60601-2-49 | Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitoring equipment |
| IEC/EN 80601-2-26 | Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs |
| IEC/EN 80601-2-49 | Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors |
| IEC/EN 80601-2-60 | Medical electrical equipment - Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment |
| IEC/EN 80601-2-78 | Medical electrical equipment - Part 2-78: Particular requirements for basic safety and essential performance of medical robots for rehabilitation assessment compensation or alleviation |
| IEC/EN/ANSI/AAMI 80601-2-30 | Medical electrical equipment – Part 2-30: Particular requirements for the safety, including essential performance of automated cycling non-invasive blood pressure monitoring equipment |
| ISO 80601-2-69 | Medical electrical equipment - Part 2-69: Particular requirements for the basic safety and essential performance of oxygen concentrator equipment |
| Laboratory Equipment, Measuring Equipment | |

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| IEC 61010-2-012 | Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning equipment |
| IEC 61010-2-040 | Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials |
| IEC 61010-2-091 | Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-091: Particular requirements for cabinet X-ray systems |
| IEC/EN 61010-031 | Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 031: Safety requirements for hand-held and hand-manipulated probe assemblies for electrical test and measurement |
| IEC/EN 61010-1 | Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements |
| IEC/EN 61010-2-010 | Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-010: Particular requirements for laboratory equipment for the heating of materials |
| IEC/EN 61010-2-011 | Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-011: Particular requirements for refrigerating equipment |
| IEC/EN 61010-2-030 | Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-030: Particular requirements for equipment having testing or measuring circuits |
| IEC/EN 61010-2-051 | Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-051: Particular requirements for laboratory equipment for mixing and stirring |
| IEC/EN 61010-2-081 | Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes |
| IEC/EN 61010-2-101 | Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment |
| Electrical | |
| Appendix I to Subpart B of 10 CFR 430 | Uniform test method for measuring the energy consumption of conventional ranges, conventional cooking tops, conventional ovens and microwave ovens (limited to microwave ovens only) |
| Appendix X and Appendix X1 to Subpart B of 10 CFR 430 | Uniform Test Method for Measuring the Energy Consumption of Dehumidifiers |
| Appendix I1 to Subpart B of 10 CFR 430 | Uniform Test Method for Measuring the Energy Consumption of Conventional Cooking Products |
| 16 CFR Part 1263 | Safety Standard for Button Cell or Coin Batteries and Consumer Products Containing Such Batteries |
| ANSI/AHAM DH-1-2008 | Dehumidifiers |
| Appendix Z to Subpart B of 10 CFR 430 | Uniform Test Method for Measuring the Energy Consumption of External Power Supplies |
| AS/NZS 3112:2017 | Approval and test specification – Plugs and socket-outlets |
| AS/NZS 3112:2017, incorporating Amendment No. 1 (September 2021) | Approval and test specification – Plugs and socket-outlets |

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| Australian Government-Product Safety Laws | Consumer Goods (Products Containing Button/Coin Batteries) Safety Standard |
| Australian Government-Product Safety Laws | Consumer Goods (Products Containing Button/Coin Batteries) Information Standard |
| BS 1363-1:2016+A1:2018 | 13A plugs, socket-outlets, adaptors and connection units Part 1: Specification for rewirable and non-rewirable 13A fused plugs |
| BS 1363-1:2023 | 13 A plugs, socket-outlets, adaptors and connection units Part 1: Rewirable and non-rewirable 13 A fused plugs - Specification |
| BS1363-3:2016+A1:2018 | 13A plugs, socket-outlets, adaptors and connection units Part 3: Specification for adaptors |
| BS 1363-3:2023 | 13 A plugs, socket-outlets, adaptors and connection units Part 3: Adaptors - Specification |
| CTIA | Certification requirements for battery system compliance to IEEE 1725 |
| CTIA | Certification requirements for battery system compliance to IEEE 1625 |
| EN 50075: 1990 | Flat non-wirable two-pole plugs, 2.5 A, 250 V, with cord, for the connection of class II – equipment for household and similar purposes |
| EN 50564 | Electrical and electronic household and office equipment -measurement of low power consumption |
| EN 50604-1 | Secondary lithium batteries for light EV (electric vehicle) applications - Part 1: General safety requirements and test methods |
| IEC 60529 | Degrees of protection provided by enclosures (IP Code) |
| IEC 60598-1 | Luminaires - Part 1: General requirements and tests |
| IEC 60598-2-1 | Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminaires |
| IEC 60598-2-2 | Luminaires - Part 2-2: Particular requirements - Recessed luminaires and recessed air handling luminaires |
| IEC 60598-2-3 | Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting |
| IEC 60598-2-4 | Luminaires - Part 2-4: Particular requirements - Portable general purpose luminaires |
| IEC 60598-2-5 | Luminaires - Part 2-5: Particular requirements - Floodlights |
| IEC 60598-2-24 | Luminaires - Part 2-24: Particular requirements - Luminaires with limited surface temperatures |
| IEC 60884-1 | Plugs and socket-outlets for household and similar purposes - Part 1: General requirements |
| IEC 61347-1 | Lamp controlgear - Part 1: General and safety requirements |
| IEC 61347-2-7 | Lamp controlgear - Part 2 -7: Particular requirements for electric source for safety services (ESSS) supplied electronic controlgear for emergency lighting (self-contained) |
| IEC 61347-2-11 | Lamp controlgear - Part 2 -11: Particular requirements for miscellaneous electronic circuits used with luminaires |
| IEC 61347-2-13 | Lamp controlgear - Part 2 -131: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules |
| IEC 62031 | LED Modules for general lighting - Safety specifications |
| IEC 62301 | Household electrical appliances – measurement of standby power |
| IEC62262 | Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code): IK00-IK08 except IK07 |
| IEC 62384 | DC or AC supplied electronic controlgear for LED modules - Performance requirements |

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| IEC 62560 | Self-ballasted LED lamp for general lighting services by voltage > 50 V- Safety specifications |
| IEC 62776 | Double -capped LED lamps designed to retrofit linear fluorescent lamps - Safety specifications |
| IEC/EN 60335-2-25 | Household and similar electrical appliances - safety - part 2-25: particular requirements for microwave ovens, including combination microwave ovens |
| INMETRO Ordinance No. 20 | Quality Technical Regulation applicable to Luminaires for Public Road Illumination |
| INMETRO Ordinance No. 62 | Technical quality regulation for luminaires for public street lighting |
| INMETRO Ordinance No. 69 | Technical regulation of quality for LED lamps with device integrated into the base |
| INMETRO Ordinance No. 143/2015; | Technical regulation of quality for self-ballasted LED lamps |
| INMETRO Ordinance No 144/2015 | Technical regulation of quality for self-ballasted LED lamps |
| INMETRO Regulation No. 389/2014 | Technical regulation of quality for self-ballasted LED lamps |
| IRAM STANDARD 2063 Fourth Edition 2009-11-12 | Two poles without earthing contact for domestic and similar purposes, for 10 A, 250 V of alternating current |
| IRAM STANDARD 2073 Third Edition 2009-11-12 | Bipolar Plugs With Earthing Contact for Household Use for 10 A and 20 A, 250 V of alternating current |
| PAS 7055 | Button and coin batteries - Safety requirements - Specification |
| SASO 2203: 2018 | Plugs and Socket-Outlets for Household and Similar Purposes-Safety Requirements and Test Methods 250 V/13 A |
| UAE.S 5010-8:2018 | Labeling – Energy Efficiency Label for Electrical Appliances Part 8: Television Sets. Annex III Conditions and Measurements |
| UL 2271 | Batteries for Use in Light Electric Vehicle (LEV) Applications |
| UL 2772 | Electrical Systems for Personal E-Mobility Devices |
| UL 2849 | Electrical Systems for e-Bikes |
| UL 4200A | Standard for Products Incorporating Button Batteries or Coin Cell Batteries |
| VDE0620-2-1: 2013-03 | Plugs and sockets for home and similar applications – Part 2-1: General requirements for plugs and coupling sockets |
| VDE0620-2-1: 2021-02 | Plugs and sockets for home and similar applications – Part 2-1: General requirements for plugs and coupling sockets |
| Electronics | |
| EN 298: 2022 | Automatic burner control systems for burners and appliances burning gaseous or liquid fuels |
| EN 13611:2019/AC:2021 | Safety and control devices for burners and appliances burning gaseous and/or liquid fuels-General requirements |
| EN 60730-1: 2016/A1:2019/A2:2022 | Automatic electrical controls Part 1: General requirements |
| EN 60730-2-5:2015/A1:2019/A2:2021 | Automatic electrical controls Part 2-5: Particular requirements for automatic electrical burner control systems |
| IEC 62087:2002 ed 1.0 | Methods of measurement for the power consumption of audio, video and related equipment |
| IEC 62087:2008 ed 2.0 | Methods of measurement for the power consumption of audio, video and related equipment |

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| IEC 62087:2011 ed 3.0 | Methods of measurement for the power consumption of audio, video and related equipment |
| IEC 62087-1 | Audio, video, and related equipment - Determination of power consumption - Part 1: General |
| IEC 62087-2 | Audio, video, and related equipment - Determination of power consumption - Part 2: Signals and media |
| IEC 62087-3 | Audio, video, and related equipment - Determination of power consumption - Part 3: Television sets (excluded the clause 6.3.8 & Fig. 4, Light source setup for ABC sensor assembly of the UUT, TV sets.) |
| IEC 62087-4 | Audio, video, and related equipment - Determination of power consumption - Part 4: Video recording equipment (Standby-passive mode test only) |
| IEC 62087-5 | Audio, video, and related equipment - Determination of power consumption - Part 5: Set-top-boxes (STB) (Standby-passive mode test only) |
| IEC 62087-6 | Audio, video, and related equipment - Determination of power consumption - Part 6: Audio equipment (Standby-passive mode test only) |
| IEC 62087-7 | Audio, video and related equipment - Methods of measurement for power consumption - Part 7: Computer monitors (Standby-passive mode test only) |
| IEC 62623 | Desktop and notebook computers – measurement of energy consumption |
| Heating/Cooling | |
| Appendix A to Subpart B of 10 CFR 430 | Uniform test method for measuring the energy consumption of Refrigerators, Refrigerator-Freezers, and Miscellaneous Refrigeration Products |
| Appendix B to Subpart B of 10 CFR 430 | Uniform test method for measuring the energy consumption of freezers |
| Appendix F to Subpart B of 10 CFR 430 | Uniform test method for measuring the energy consumption of room air conditioners |
| § 431.96 to Subpart F of 10 CFR 431 | Uniform test method for the measurement of energy efficiency of commercial air conditioners and heat pumps. |
| AHAM-HRF-1-2008 | Performance and capacity of household refrigerators, refrigerator-freezers and freezers |
| AHAM HRF-1-2019 | Energy and Internal Volume of Consumer Refrigeration Products |
| AHRI 310/380-2014 | Standard for packaged terminal air-conditioners and heat pumps |
| ANSI/AHAM RAC-1 | Room air conditioners |
| AS/NZS 3823.1.1 | Performance of electrical appliances – air conditioners and heat pumps part 1.1 - non-ducted air conditioners and heat pumps – testing and rating for performance |
| AS/NZS 3823.1.4:2012 | Performance of electrical appliances— Air conditioners and heat pumps Part 1.4: Multiple split-system air conditioners and air to air heat pumps—Testing and rating for performance |
| AS/NZS 3823.1.5:2015 | Performance of electrical appliances—Air conditioners and heat pumps Part 1.5: Non-ducted portable air-cooled air conditioners and air-to-air heat pumps having a single exhaust duct—Testing and rating for performance |
| AS/NZS 3823.4.1:2014 | Performance of electrical appliances—Air conditioners and heat pumps Part 4.1: Air-cooled air conditioners and air-to-air heat pumps—Testing and calculating methods for seasonal performance factors—Cooling seasonal performance factor |
| AS/NZS 3823.4.2:2014 | Performance of electrical appliances—Air conditioners and heat pumps Part 4.2: Air-cooled air conditioners and air-to-air heat pumps—Testing and calculating methods for seasonal performance factors—Heating seasonal performance factor |

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| AS/NZS 3823.4.3:2014 | Performance of electrical appliances—Air conditioners and heat pumps Part 4.3: Air-cooled air conditioners and air-to-air heat pumps—Testing and calculating methods for seasonal performance factors—Annual performance factor |
| AS/NZS 60335-1 | Household and similar electrical appliances - safety - part 1: general requirements |
| AS/NZS 60335.2.102:2018 | Household and similar electrical appliances – Safety –Part 2.102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections |
| CSA C300 | Energy performance and capacity of household refrigerators, refrigerator-freezers, freezers, and wine chillers |
| CSA-C368.1-14 | Energy performance of room air conditioners |
| CSA C744-14 | Standard for packaged terminal air-conditioners |
| DGNTI-COPANIT-507-2017 | Energy efficiency of room type air-conditioners. Limits and test methods |
| DGNTI-COPANIT-508-2017 | Energy efficiency in air conditioners of divided type, free discharge and without air ducts. Limits and test method (Minisplit and Multisplit) |
| EN 14511-1; -2; -3; -4 | Air conditioners, liquid chilling packages and heat pumps for space heating and cooling and process chillers, with electrically driven compressors – Part 1: Terms and definitions; Part 2: Test Conditions; Part 3: Test Methods; Part 4: Requirements |
| EN 14825 | Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling – Testing and rating at part load conditions and calculation of seasonal performance |
| EN 15218 | Air conditioners and liquid chilling packages with evaporatively cooled condenser and with electrically driven compressors for space cooling - Terms, definitions, test conditions, test methods and requirements |
| EN 60335-2-102: 2016 | Household and similar electrical appliances – Safety –Part 2.102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections |
| EN 62552-1 | Household refrigerating appliances - Characteristics and test methods - Part 1: General requirements |
| EN 62552-2 | Household refrigerating appliances - Characteristics and test methods - Part 2: Performance requirements |
| EN 62552-3 | Household refrigerating appliances - Characteristics and test methods - Part 3: Energy consumption and volume |
| EN/ISO 9227 2017 | Corrosion tests in artificial atmospheres — Salt spray tests (excluding cl 5.2.3, 5.2.4, 6.6, 7 |
| GB/T 7725 | Room air conditioners |
| GSO 2530-2016 | Energy Labelling and Minimum Energy Performance Requirements For Air-Conditioners |
| IEC 60335-2-102:2004 + A1:2008 + A2:2012 | Household and similar electrical appliances – Safety –Part 2.102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections |
| IEC 60335-2-102:2017 | Household and similar electrical appliances – Safety –Part 2.102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections |
| IEC 62552-1: 2015 | Household refrigerating appliances – Characteristics and test methods – Part 1: General requirements |

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| IEC 62552-2: 2015 | Household refrigerating appliances – Characteristics and test methods – Part 2: Performance requirements |
| IEC 62552-3: 2015 | Household refrigerating appliances - Characteristics and test methods - Part 3: Energy consumption and volume |
| IEC/EN 60335-1 | Household and similar electrical appliances - safety - part 1: general requirements |
| IEC/EN 60335-2-24 | Household and similar electrical appliances - safety - part 2-24: particular requirements for refrigerating appliances, ice-cream appliances and ice makers |
| IEC/EN 60335-2-34 | Household and similar electrical appliances - safety - part2-34: Particular requirements for motor-compressors |
| IEC/EN 60335-2-40 | Household and similar electrical appliances - safety - part 2-40: particular requirements for electrical heat pumps, air-conditioners and dehumidifiers |
| IEC/EN 60335-2-89 | Household and similar electrical appliances - safety - part 2-89: particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor (except flammable refrigerant testing) |
| IEC/EN/SANS/MS IEC 62552 | Household refrigerating appliances - characteristics and test methods |
| IS 1391-1 | Room air conditioners – specification - part 1: unitary air conditioners |
| IS 1391-2 | Room air conditioners – specification - part 2: split air conditioners |
| IS 1476 | Performance of Household Refrigerating Appliance – Refrigerators With or Without Low Temperature Compartment |
| IS 15750 | Household frost-free refrigerating appliances – Refrigerators cooled by internal forced air circulation – Characteristics and test methods |
| ISO 5151:2010 | Non-ducted air conditioners and heat pumps – testing and rating for performance |
| ISO 5151:2017 | Non-ducted air conditioners and heat pumps – testing and rating for performance |
| ISO 10289-1999 | Methods for corrosion testing of metallic and other inorganic coatings on metallic substrates - Rating of test specimens and manufactured articles subjected to corrosion tests |
| ISO 15042:2011 | Multiple split-system air-conditioners and air-to-air heat pumps – testing and rating for performance |
| ISO 15042:2017 | Multiple split-system air conditioners and air-to-air heat pumps — Testing and rating for performance |
| ISO 16358-1:2013 | Air-cooled air conditioners and air-to-air heat pumps - Testing and calculating methods for seasonal performance factors - Part1: Cooling seasonal performance factor |
| ISO 16358-1:2013/Cor 1:2013 | Air-Cooled Air Conditioners and Air-To-Air Heat Pumps - Testing and Calculating Methods for Seasonal Performance Factors - Part 1: Cooling Seasonal Performance Factor Technical Corrigendum 1 |
| ISO 16358-1:2013/Amd 1:2019 | Air-Cooled Air Conditioners and Air-To-Air Heat Pumps - Testing And Calculating Methods for Seasonal Performance Factors - Part 1: Cooling Seasonal Performance Factor - Amendment 1 2019:04 |
| ISO 16358-2:2013 | Air-cooled air conditioners and air-to-air heat pumps — Testing and calculating methods for seasonal performance factors —Part 2: Heating seasonal performance factor |
| ISO 16358-3:2013 | Air-cooled air conditioners and air-to-air heat pumps — Testing and calculating methods for seasonal performance factors —Part 3: Annual performance factor |
| ISO 18326: 2018 | Non-ducted portable air-cooled air conditioners and air-to-air heat pumps having a single exhaust duct – Testing and rating for performance |

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| JIS C 9612 | Room air conditioners |
| KS 2463:2013 | Non-ducted air conditioners - Testing and rating performance |
| MS 2597 | Minimum energy performance standards (MEPS) for air conditioners |
| MS ISO 5151 | Non-ducted Air Conditioners and Heat Pumps - Testing and rating for performance |
| NTE INEN 2206:2019 (4 ed) | Household refrigerating appliances - characteristics and test methods |
| NTE INEN 2297-2001 | Frozen Food Storage Cabinets and Household Food Freezers. Specifications and Inspection |
| NTE INEN 2495:2012 | Energy efficiency of non-ducted air conditioners and heat pumps requirement |
| NTE INEN-IEC 62552-2014 | Household refrigerating appliances - characteristics and test methods |
| RTS 23.01.02:15 | Energy efficiency: Room air conditioners. Limits, test methods and labeling |
| RTS 23.01.03:15 | Energy efficiency: Room air conditioners. Limits, test methods and labeling |
| SASO 2663:2018 | Air Conditioners - Minimum Energy Performance, Labelling and Testing Requirements for Low Capacity Window and Single-Split Types |
| SASO 2663:2021 | Air Conditioners - Minimum Energy Performance, Labelling and Testing Requirements for Low Capacity Window and Single-Split Types |
| SASO 2892:2018 | Refrigerators, Refrigerator- Freezers and Freezers -Energy Performance, Testing and Labeling Requirements |
| SASO 2892:2018/AMD2:2021 | Refrigerators, Refrigerator-Freezers and Freezers - Energy Performance, Testing and Labeling Requirements |
| SASO IEC 62552: 2007 | Household refrigerating appliances - characteristics and test methods |
| SASO ISO 5151 | Non-ducted Air Conditioners and Heat Pumps - Testing and rating for performance |
| SASO ISO 16358-1:2013 | Air-cooled air conditioners and air-to-air heat pumps - Testing and calculating methods for seasonal performance factors - Part1: Cooling seasonal performance factor |
| SASO ISO 16358-1:2013/Amd 1:2019 | Air-Cooled Air Conditioners and Air-To-Air Heat Pumps - Testing and Calculating Methods for Seasonal Performance Factors - Part 1: Cooling Seasonal Performance Factor - Amendment 1:2019 |
| Energy Star | |
| ENERGY STAR® program requirements for audio/video | |
| ENERGY STAR® program requirements for computers (including IPS and EPS test methods) | |
| ENERGY STAR® program requirements for displays | |
| ENERGY STAR® program requirements for imaging equipment | |
| ENERGY STAR® program requirements for telephony | |
| ENERGY STAR® Program Requirements Product Specification for Dehumidifiers | |
| ENERGY STAR® program requirements product specification for Consumer Refrigeration Products | |
| ENERGY STAR® Program Requirements Product Specification for Residential Electric Cooking Products | |
| ENERGY STAR® Program Requirements Product Specification for Laboratory Grade Refrigerators and Freezers | |
| ENERGY STAR® program requirements product specification for room air conditioners | |
| ENERGY STAR® program requirements product specification for water coolers | |

AHAM: Association of Home Appliance Manufacturers

CTIA: Cellular Telephone Industries Association (The Wireless Association)

CFR: Code of Federal Regulations

GB: Guobiao (Chinese National Standard)

IEC: International Electrotechnical Commission

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IEEE: Institute of Electrical and Electronic Engineers

IS: Indian Standards

JIS: Japanese Industrial Standards

INEN: Instituto Ecuatoriano de Normalization
(Ecuadorian Institute of Standardization)

SANS: South African National Standard

SASO: Saudi Arabia Standards Organization

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