

# **CERTIFICATE OF ACCREDITATION**

This is to attest that

#### AUA TESTING LTD.

SECOND FLOOR, BUILDING 1, NO.58 JIDIAN ROAD, HANGZHOU BAY NEW DISTRICT NINGBO, 315000, PEOPLE'S REPUBLIC OF CHINA

#### **Testing Laboratory TL-1021**

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 November 9, 2023



President

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Accredited to ISO/IEC 17025:2017

Effective Date November 9, 2023

Electrical	
ABNT NBR 14633	Cables and Flexible cord with extruded chlorossulfonated polyethylene (CSP) insulation for rated voltages up to and including 500 V – Performance requirements
ABNT NBR NM 60884-1	Plugs and socket-outlets for household and similar purposes – Part 1: General requirements
ANSI/NEMA WD 6-2002	Wiring devices – dimensional specifications
AS 1530.4	Methods for fire tests on building materials, components and structures Part 4: Fire-resistance tests for elements of construction
AS 3133	Approval and test specification – Airbreak switches
AS 60204.1	Safety of machinery – Electrical equipment of machines – Part 1: General requirements
AS60529	Degrees of protection provided by enclosures (IP Code)
AS 60669.2.1	Switches for household and similar fixed-electrical installations Part 2-1: Particular requirements – Electronic switches
AS/NZS 1125	Conductors in insulated electric cables and flexible cords
AS/NZS 1429.1	Electric cables – Polymeric insulated Part 1: For working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV
AS/NZS 1660.1	Test methods for electric cables, cords and conductors Method 1: Conductors and metallic components
AS/NZS 1660.2.1	Test methods for electric cables, cords and conductors Method 2.1: Insulation, extruded semi-conductive screens and non-metallic sheaths – Methods for general application
AS/NZS 1660.2.2	Test methods for electric cables, cords and conductors Method 2.4: Insulation, extruded semi-conductive screens and nonmetallic sheaths – Methods specific to polyethylene and polypropylene materials
AS/NZS 1660.2.3	Test methods for electric cables, cords and conductors Method 2.3: Insulation, extruded semiconductive screens and non-metallic sheaths – Methods specific to PVC and halogen free thermoplastic materials





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AS/NZS 1660.2.4	Test methods for electric cables, cords and conductors Method 2.4: Insulation, extruded semi-conductive screens and nonmetallic sheaths – Methods specific to polyethylene and polypropylene materials
AS/NZS 1660.2.5	Test methods for electric cables, cords and conductors Method 2.5: Insulation, extruded semi-conductive screens and non-metallic sheaths – Methods specific to cables above 1 kV
AS/NZS 1660.3	Test methods for electric cables, cords and conductors Method 3: Electrical tests
AS/NZS 1660.4	Test methods for electric cables, cords and conductors Method 4: Complete cable and flexible cord
AS/NZS 1660.5.1	Test methods for electric cables, cords and conductors Method 5.1: Fire tests – Test for vertical flame spread of vertically-mounted bunched wires or cables
AS/NZS 1660.5.2	Test methods for electric cables, cords and conductors Method 5.2: Fire tests – Measurement of smoke density of cables burning under defined conditions
AS/NZS 1660.5.3	Test methods for electric cables, cords and conductors Method 5.3: Fire tests – Determination of the amount of halogen acid gas evolved during the combustion of polymeric materials taken from cable
AS/NZS 1660.5.4	Test methods for electric cables, cords and conductors Method 5.4: Fire tests – Determination of degree of acidity of gases evolved during the combustion of materials taken from electric cables by measuring pH and conductivity
AS/NZS 1660.5.5	Test methods for electric cables, cords and conductors Method 5.5: Fire tests – Circuit integrity
AS/NZS 1660.5.6	Test methods for electric cables, cords and conductors Method 5.6: Fire tests – Test for vertical flame propagation for a single insulated wire or cable
AS/NZS 1995	Welding cables
AS/NZS 3012	Electrical installations – Classification and demolition sites
AS/NZS 3013	Electrical installations – Classification of the fire and mechanical performance of wiring system elements
AS/NZS 3100	Approval and test specification – General requirements for electrical equipment
AS/NZS 3105	Approval and test specification – Electrical portable outlet devices
AS/NZS 3112	Australian, Zealand Standard Approval and test specification – Plugs and socket-outlets
AS/NZS 3120	Approval and test specification – Cord Extension Socket
AS/NZS 3122	Approval and test specification – Socket-outlet adaptors
AS/NZS 3123	Approval and test specification – Plugs, socket-outlets and couplers for general industrial application





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AS/NZS 3127	Approval and test specification – Cord-line switches
AS/NZS 3131	Approval and test specification – Plugs and socket outlets for stationary appliances
AS/NZS 3133	Approval and test specification – Airbreak switches
AS/NZS 3190	Approval and test specification – Residual current devices (current-operated earth-leakage devices)
AS/NZS 3191	Electric flexible cords
AS/NZS 3194	Approval and test specification – Electric shaver supply units
AS/NZS 3199	Approval and test specification – Cord extension sets
AS/NZS 4024.1204	Safety of machinery – Electrical equipment of machines – Part 1: General requirements
AS/NZS 4763	Safety of portable inverters
AS/NZS 5000.1	Electric cables – Polymeric insulated, Part 1: For working voltages up to and including 0.6/1 (1.2) kV
AS/NZS 5000.2	Electric cables – Polymeric insulated, Part 2: For working voltages up to and including 450/750 V <u>https://store.standards.org.au/product/as-nzs-5000-2-2006</u>
AS/NZS 60238	Approval and test specification – Edison screw lampholders
AS/NZS 60320.1	Appliances couplers for household and similar general purposes – Part 1: General requirements
AS/NZS 60320.2.2	Appliance couplers for household and similar general purposes – Part 2-2: Interconnection couplers for household and similar equipment
AS/NZS 60669.1	Switches for household and similar fixed-electrical installations Part 1: General requirements
AS/NZS 60838.1	Miscellaneous lampholders – Part 1: General requirements and tests
AS/NZS 60838.2.1	Miscellaneous lampholders – Part 2-1: Particular requirements - Lampholders SI4
AS/NZS 60838.2.2	Miscellaneous lampholders – Part 2-2: Particular requirements – Connectors for LED-modules
AS/NZS 60838.2.3	Miscellaneous lampholders – Part 2-3: Particular requirements – Lampholders for double-capped linear LED lamps
AS/NZS 61184	Approval and test specification – Bayonet lampholders
AS/NZS 61386.1	Conduit systems for cable management, Part 1: General requirements
AS/NZS 61386.21	Conduit systems for cable management, Part 21: Particular requirements – Rigid conduit systems





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AS/NZS 61386.22	Conduit systems for cable management, Part 22: Particular requirements – Pliable conduit systems
AS/NZS 61535	Installation couplers intended for permanent connection in fixed installations
AS/NZS 61558.1	Safety of power transformers, power supplies, reactors and similar products Part 1: General requirements and tests
AS/NZS 61558.2.6	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers
AS/NZS 61558.2.16	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units
AS/NZS 62368.1	Audio/video, information and communication technology equipment – Part 1: Safety requirements
AS/NZS IEC 60227.5	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750V Part 5: Flexible cables (cords)
AS/NZS IEC 60245.4	Rubber insulated cables – Rated voltages up to and including 450/750V Part 4: Cords and flexible cables
AS/NZS IEC 60332.1.1	Tests on electric and optical fibre cables under fire conditions, Part 1.1: Test for vertical flame propagation for a single insulated wire or cable apparatus
AS/NZS IEC 60998.1	Connecting devices for low-voltage circuits for household and similar purposes Part 1: General requirements
AS/NZS IEC 60998.2.1	Connecting Devices for Low Voltage Circuits for Household and Similar Purposes Part 2-1: Particular Requirements for Connecting Devices as Separate Entities with Screw-Type Clamping Units
AS/NZS IEC 60998.2.2	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units
AS/NZS IEC 60998.2.3	Connecting devices for low-voltage circuits for household and similar purposes – Part 2-3: Particular requirements for connecting devices as separate entities with insulation-piercing clamping units
BS 546	Two-pole and earthing-pinplugs, socket-outlets and socket-outlet adaptors for circuits up to 250V
BS 1363-1	13 A plugs, socket-outlets, adaptors and connection units Part 1: Specification for rewirable and non-rewirable 13 A fused plugs
BS 1363-2	13 A plugs, socket-outlets, adaptors and connection units Part 2: Specification for 13 A switched and unswitched socket outlets





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BS 1363-3	13 A plugs, socket-outlets, adaptors and connection units Part 3: Specification for adaptors
BS 1363-4	13 A plugs, socket-outlets, adaptors and connection units Part 4: Specification for 13 A fused connection units switched and unswitched
BS 5733	General requirements for electrical accessories
CEI23-16/VII	Plugs and socket-outlets for household and similar purposes General requirements
DIN VDE 0620-1	Plugs and socket-outlets for household and similar purposes – Part 1: General Requirements
EN 50075	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 50525-1	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 1: General requirements
EN 50525-2-11	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750V Part 5: Flexible cables (cords)
EN 50525-2-21	Rubber insulated cables – Rated voltages up to and including 450/750V Part 4: Cords and flexible cables
EN 50525-2-31	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V-Part 3: Non-sheathed cables for fixed wiring
EN 50618	Electric cables for photovoltaic systems
EN 50620	Electric cables – Charging cables for electric vehicles
EN 60238	Approval and test specification – Edison screw lampholders
EN 60838-1	Miscellaneous lampholders – Part 1: General requirements and tests
EN 60838-2-1	Miscellaneous lampholders – Part 2-1: Particular requirements – Lampholders SI4
EN 60838-2-2	Miscellaneous lampholders – Part 2-2: Particular requirements – Connectors for LED-modules
EN 60838-2-3	Miscellaneous lampholders – Part 2-3: Particular requirements – Lampholders for double-capped linear LED lamps
EN 61184	Approval and test specification – Bayonet lampholders
EN 61558-1	Safety of power transformers, power supplies, reactors and similar products Part 1: General requirements and tests
EN 61558-2-6	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V – Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers





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EN 61558-2-16	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V $-$ Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units
EN 62368-1	Audio/video, information and communication technology equipment – Part 1: Safety requirements
GSO 2117	Safety requirements for Cord Extension Sets
IEC 60204-1	Safety of machinery – Electrical equipment of machines – Part 1: General requirements
IEC 60227-1	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V – Part 1: General requirements
IEC 60227-2	Polyvinyl chloride insulated cables of rated voltages up to and including $450/750 \text{ V} - \text{Part } 2$ : Test methods
IEC 60227-3	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V-Part 3: Non-sheathed cables for fixed wiring
IEC 60227-4	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V-Part 4: Sheathed cables for fixed wiring
IEC 60227-5	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750V Part 5: Flexible cables (cords)
IEC 60238	Approval and test specification – Edison screw lampholders
IEC 60245-1	Rubber insulated cables of rated voltage up to and including 450/750V – Part 1: General requirements
IEC 60245-2	Rubber insulated cables of rated voltage up to and including 450/750V – Part 2: Test methods
IEC 60245-3	Rubber insulated cables-Rated voltages up to and including 450/750 V – Part 3: Heat resistant silicone insulated cables
IEC 60245-4	Rubber insulated cables – Rated voltages up to and including 450/750V – Part 4: Cords and flexible cables
IEC 60309-1	Plugs, fixed or portable socket-outlets and appliance inlets for industrial purposes – Part 1: General requirements
IEC 60309-2	Plugs, fixed or portable socket-outlets and appliance inlets for industrial purposes – Part 2: Dimensional compatibility requirements for pin and contact-tube accessories
IEC 60320-1	Appliances couplers for household and similar general purposes – Part 1: General requirements
IEC 60320-2-2	Appliance couplers for household and similar general purposes – Part 2-2: Interconnection couplers for household and similar equipment
IEC 60320-2-3	Appliance couplers for household and similar general purposes – Part 2-3: Appliance couplers with a degree of protection higher than IPX0





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IEC 60320-2-4	Appliance couplers for household and similar general purposes – Part 2-4: Couplers dependent on appliance weight for engagement
IEC 60529	Degrees of protection provided by enclosures (IP Code)
IEC 60669-1	Switches for household and similar fixed-electrical installations Part 1: General requirements
IEC 60669-2-1	Switches for household and similar fixed-electrical installations Part 2-1: Particular requirements – Electronic switches
IEC 60669-2-2	Switches for household and similar fixed electrical installations – Part 2-2: Particular requirements – Electromagnetic remote-control switches (RCS)
IEC 60669-2-3	Switches for household and similar fixed electrical installations – Part 2-3: Particular requirements – Time delay switches (TDS)
IEC 60670-1	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 1: General requirements
IEC 60670-21	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 21: Particular requirements for boxes and enclosures with provision for suspension means
IEC 60670-22	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 22: Particular requirements for connecting boxes and enclosures
IEC 60670-23	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 23: Particular requirements for floor boxes and enclosures
IEC 60670-24	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations – Part 24: Particular requirements for enclosures for housing protective devices and other power dissipating electrical equipment
IEC 60799	Electrical accessories – Cord sets and interconnection cord sets
IEC 60838-1	Miscellaneous lampholders – Part 1: General requirements and tests
IEC 60838-2-1	Miscellaneous lampholders – Part 2-1: Particular requirements – Lampholders SI4
IEC 60838-2-2	Miscellaneous lampholders – Part 2-2: Particular requirements – Connectors for LED-modules
IEC 60838-2-3	Miscellaneous lampholders – Part 2-3: Particular requirements – Lampholders for double-capped linear LED lamps
IEC 60884-1	Plugs and Socket-Outlets for Household and similar purposes – Part 1: General Requirements





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IEC 60884-2-1	Plugs and socket-outlets for household and similar purposes – Part 2-1: Particular requirements for fused plugs
IEC 60884-2-2	Plugs and socket-outlets for household and similar purposes – Part 2-2: Particular requirements for socket-outlets for appliances
IEC 60884-2-3	Plugs and socket-outlets for household and similar purposes – Part 2-3: Particular requirements for switched socket-outlets without interlock for fixed installations
IEC 60884-2-4	Plugs and socket-outlets for household and similar purposes – Part 2-4: Particular requirements for plugs and socket-outlets for SELV
IEC 60884-2-5	Plugs and socket-outlets for household and similar purposes – Part 2-5: Particular requirements for adaptors
IEC 60884-2-6	Plugs and socket-outlets for household and similar purposes – Part 2-6: Particular requirements for switched socket-outlets with interlock for fixed installations
IEC 60884-2-7	Plugs and socket-outlets for household and similar purposes – Part 2-7: Particular requirements for cord extension sets
IEC 60998-1	Connecting devices for low-voltage circuits for household and similar purposes Part 1: General requirements
IEC 60998-2-1	Connecting Devices for Low Voltage Circuits for Household and Similar Purposes Part 2-1: Particular Requirements for Connecting Devices as Separate Entities with Screw-Type Clamping Units
IEC 60998-2-2	Connecting devices for low-voltage circuits for household and similar purposes – Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units
IEC 60998-2-3	Connecting devices for low-voltage circuits for household and similar purposes – Part 2-3: Particular requirements for connecting devices as separate entities with insulation-piercing clamping units
IEC 61084-1	Cable trunking systems and cable ducting systems for electrical installations – Part 1: General requirements.
IEC 61084-2-1	Cable trunking systems and cable ducting systems for electrical installations – Part 2-1: Particular requirements – Cable trunking systems and cable ducting systems intended for mounting on walls and ceilings
IEC 61084-2-2	Cable trunking systems and cable ducting systems for electrical installations – Part 2-2: Particular requirements – Cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor
IEC 61084-2-3	Cable trunking systems and cable ducting systems for electrical installations – Part 2-3: Particular requirements – Slotted cable trunking systems intended for installation in cabinets





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IEC 61084-2-4	Cable trunking systems and cable ducting systems for electrical installations – Part 2-4: Particular requirements – Service poles and service posts
IEC 61184	Approval and test specification – Bayonet lampholders
IEC 61386.1	Conduit systems for cable management, Part 1: General requirements
IEC 61386.21	Conduit systems for cable management, Part 21: Particular requirements – Rigid conduit systems
IEC 61386.22	Conduit systems for cable management, Part 22: Particular requirements – Pliable conduit systems
IEC 61535	Installation couplers intended for permanent connection in fixed installations
IEC 61558-1	Safety of power transformers, power supplies, reactors and similar products Part 1: General requirements and tests
IEC 61558-2-6	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V – Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers
IEC 61558-2-16	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V $-$ Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units
IEC 61851-1	Electric vehicle conductive charging system – Part 1: General requirements
IEC 62196-1	Plugs, socket-outlets, vehicle couplers and vehicle inlets – Conductive charging of electric vehicles – Part 1: Charging of electric vehicles up to 250 A a.c. and 400 A d.c.
IEC 62196-2	Plugs, socket-outlets, and vehicle couplers – Conductive charging of electric vehicles – Part 2: Dimensional interchangeability requirements for a.c. pin and contact-tube accessories
IEC 62368-1	Audio/video, information and communication technology equipment – Part 1: Safety requirements
IEC 62752	In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD)
IEC 62893-1	Charging cables for electric vehicles for rated voltages up to and including 0,6/1 kV – Part 1: General requirements
IEC 62893-2	Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV – Part 2: Test methods
IEC 62893-3	Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV – Part 3: Cables for AC charging according to modes 1, 2 and 3 of IEC 61851-1 of rated voltages up to and including 450/750V
IEC 62930	Electric cables for photovoltaic systems with a voltage rating of 1,5 kV DC





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IRAM 2063	Two-poles electrical plug without earthing contact, for 10 A, 250 V, of alternative current for household and similar purposes
NBR 14136	Dimensions for plug & socket
NF C 61-314	Plugs and socket-outlets for household and similar purposes – 6 A / 250 V and 16 A / 250 V systems
SANS 164-0	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 0: General and safety requirements
SANS 164-1	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 1: Conventional system, 16 A 250 V a.c
SANS 164-2-1	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 2-1: Partially dedicated system, 16 A 250 V a.c. S
SANS 164-2-2	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 2-2: Fully dedicated system,16 A 250 V a.c.
SANS 164-3	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 3: Conventional system, 6 A 250 V a.c
SANS 164-4	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 4: Dedicated system, 16 A 250 V a.c
SANS 164-5	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 5: Two-pole, non-rewirable plugs, 2,5 A 250 V a.c., with cord, for connection of class II equipment S
SANS 164-6	Plug and socket-outlet systems for household and similar purposes for use in South Africa Part 5: Two-pole system, 16A 250 V a.c. for connection of class II equipment
SANS 1661	Cord extension sets
SASO 2203	Plugs and socket-outlets systems for household and similar purposes – safety requirements and test methods 250 V/13 A SASO
SASO 2815	Safety requirements for cord extension sets
SB 107-2-D1	Dimensions for plug & socket
SI 32 Part 1.1	Plugs and socket-outlets for household and similar purposes: Plugs and socket-outlets for single phase up to 16A – General requirements
SN 441011 Series	Plugs and socket-outlets for household and similar purposes – Part 1: System description with risk analysis and national deviations for the IEC 60884 series
SNI 04-3892.1.1	Contacts and boxes for household needs and so on – Part 1-1: General conditions – Form and Size
SNI 04-6629.1	The PVC insulating wires with ids Up to 450/750V – Section 1: general requirements





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SNI 04-6629.2	The PVC insulating wires with ids Up to 450/750V – Part 2: test method
SNI 04-6629.5	The PVC insulating wires with ids Up to 450/750 V – Part 2: flexible cables (cables)
UNE 20315-1-1	Plugs and sockets-outlets for household and similar purposes. Part 1-I: General requirements.
UNE 20315-1-2	Plugs and sockets-outlets for household and similar purposes. Part 1-2: Dimensional requirements for Spanish System.
UNE 20315-2-5	Plugs and socket-outlets for household and similar purposes. Part 2-5: Particular requirements for adaptors for permanent use.

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