



INTERNATIONAL
ACCREDITATION
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CERTIFICATE OF ACCREDITATION

This is to attest that

DONGGUAN LIHENG TECHNICAL SERVICE CO., LTD.

1ST FLOOR, 2ND BUILDING, NO.15 OF CHUANGYE TWO ROAD, MULUN, CHANGPING TOWN
DONGGUAN, GUA, 523562 CHINA

Testing Laboratory TL-1261

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 August 13, 2024



International Accreditation Service
Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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Accredited to ISO/IEC 17025:2017

Effective Date August 13, 2024

Electrical Testing	
ABNT NBR 16149	Photovoltaic (PV) systems – Characteristics of the utility interface
ABNT NBR 16150	Photovoltaic (PV) systems — Characteristics of the utility interface - Conformity test procedure
AS/NZS 4777.2	Grid connection of energy systems via inverters, Part 2: Inverter requirements
BS EN IEC 62477-1	Safety requirements for power electronic converter systems and equipment Excluded testing of the following clauses: 5.2.6 Environmental tests (type test) 5.2.7 Hydrostatic pressure test (type yes, routine test) 5.2.8 Electromagnetic fields (EMF)
C10/11	Specific technical prescriptions regarding power generating plants operating in parallel to the distribution network
CEA (Central Electricity Authority) Notification N°12/X/STD (CONN)/GM/CEA	CEA (Technical Standards for Connectivity to the Grid) (Amendment) Regulations, 2019
CEI 0-16	Reference technical rules for the connection of active and passive consumers to the HV and MV electrical networks of distribution company
CEI 0-21	Reference technical rules for the connection of active and passive users to the LV electrical utilities
DEWA Annex D.3	Standards for distributed renewable resources generators connected to the distribution network
EN 50530	Overall efficiency of grid connected photovoltaic inverters
EN 50549-1	Requirements for generating plants to be connected in parallel with distribution networks - Part 1: Connection to a LV distribution network - Generating plants up to and including Type B
EN 50549-2	Requirements for generating plants to be connected in parallel with distribution networks - Part 2: Connection to a MV distribution network - Generating plants up to and including Type B

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EN 50549-10	Requirements for generating plants to be connected in parallel with distribution networks - Part 10: Tests for conformity assessment of generating units
EN 62109-1	Safety of Power Converter for use in Photovoltaic Power Systems - Part 1: General requirements Excluded testing of the following clauses: 6. Environmental requirements and conditions 8. Protection against mechanical hazards 9. Protection against fire hazards 11. Protection against liquid hazards 12. Chemical hazards 13.6 Polymeric materials 14. Components 15. Software and firmware performing safety functions Annex J, Ultraviolet light conditioning test
EN 62109-2	Safety of Power Converter for use in Photovoltaic Power Systems - Part 2: Particular requirements for inverters Excluded testing of the following clauses: 11. Protection against liquid hazards 12. Protection against chemical hazards 14. Components
EREC G98	Requirements for the connection of Fully Type Tested Micro-generators (up to and including 16 A per phase) in parallel with public Low Voltage Distribution Networks
EREC G99	Requirements for the connection of generation equipment in parallel with public distribution networks
EREC G100	Technical Requirements for Customers' Export and Import Limitation Schemes
FGW Part 3	Technical Guidelines for Power Generating Units and Systems: Determination of the Electrical Characteristics of Power Generating Units and Systems, Storage Systems as well for their Components in Medium-, High- and Extra-High Voltage Grids
IEC 61683	Photovoltaic systems - Power conditioners - Procedure for measuring efficiency
IEC 61727	Photovoltaic (PV) systems - Characteristics of the utility interface
IEC 62109-1	Safety of Power Converter for use in Photovoltaic Power Systems - Part 1: General requirements Excluded testing of the following clauses: 6. Environmental requirements and conditions 8. Protection against mechanical hazards 9. Protection against fire hazards

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	<p>11. Protection against liquid hazards 12. Chemical hazards 13.6 Polymeric materials 14. Components 15. Software and firmware performing safety functions Annex J, Ultraviolet light conditioning test</p>
IEC 62109-2	<p>Safety of Power Converter for use in Photovoltaic Power Systems - Part 2: Particular requirements for inverters Excluded testing of the following clauses: 11. Protection against liquid hazards 12. Protection against chemical hazards 14. Components</p>
IEC 62116	Utility-interconnected photovoltaic inverters – Test procedure of islanding prevention measures
IEC 62477-1	<p>Safety requirements for power electronic converter systems and equipment Excluded testing of the following clauses: 5.2.6 Environmental tests (type test) 5.2.7 Hydrostatic pressure test (type yes, routine test) 5.2.8 Electromagnetic fields (EMF)</p>
MEA Grid-connected Inverter Regulation (March 14, 2013)	Technical conditions for connection to the electrical system and testing methodology for the grid-connected inverter used in power generation systems defined as Small Power Producers (SPP), Very Small Power Producers (VSPP) or grid-connected generator owner (used to connect to the metropolitan power grid system - Thailand)
Norma Técnica de Conexión y Operación de PMGD en Instalaciones de Media Tensión	Technical standard for the connection and operation of PMGD in medium-voltage installations
Norma Técnica de Seguridad y Calidad de Servicio; TOR Erzeuger	Technical and organizational rules for operators and users of networks
NRS 097-2-1	Grid interconnection of embedded generation, Part 2: Small-Scale embedded generation section 1: Utility Interface
NT SyCS-Sept2020	Technical safety standard and quality of service (Chile)
PEA Grid-connected Inverter Regulations (Translated)_2013	The requirement on Grid Connection of Provincial Electricity Authority B.E. 2559 (2016)
PORTARNIA N° 140	Technical Quality Regulation and Conformity Assessment Requirements for Electric Energy Generation, Conditioning and Storage Equipment in Photovoltaic Systems



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RPPS	Grid connection code for renewable power plants (RPPs) connected to the electricity transmission system (TS) or the distribution system (DS) in South Africa
VDE AR-N 4105	Generators connected to the low-voltage distribution network technical requirements for the connection to and parallel operation with low-voltage distribution networks
VDE V 0124-100	Grid integration of generator plants Low-voltage – Test requirements for generator units to be connected to and operated in parallel with low-voltage distribution networks
VDE V 0126-1-1	Automatic disconnection device between a generator and the public low-voltage grid

