

CERTIFICATE OF ACCREDITATION

This is to attest that

DEKRA TESTING AND CERTIFICATION (SHANGHAI) LTD.

NO.250, JIANGCHANGSAN ROAD, JING'AN DISTRICT SHANGHAI, 200436 PEOPLE'S REPUBLIC OF CHINA

Product Certification Agency PCA-141

has met the requirements of the applicable provisions of AC370, *IAS Accreditation Criteria for Product Certification Agencies*, has demonstrated compliance with ISO/IEC Standard 17065:2012, *Conformity assessment - Requirements for bodies certifying products, process and services.* This third-party product certification agency is accredited to provide the services specified in the scope of accreditation.

Effective Date March 21, 2024



President

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

DEKRA TESTING AND CERTIFICATION (SHANGHAI) LTD.

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Contact Name Wayne Wang

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Accredited to ISO/IEC 17065:2012

Effective Date March 21, 2024

Product Category and Sub-Category	Certification Scheme and Scheme Owner / Standard
Low Voltage Electrical Equipment and Appliances	DEKRA
Household and similar electrical appliances	DEKRA Seal Scheme – Scheme Type 5 Certificate of Conformity (CoC) – Scheme Type 1a
Luminaires	Certificate of Conformity (CoC) - Scheme Type 1a
Audio, video and similar electronic apparatus, information and communication technology equipment	Certificate of Conformity (CoC) - Scheme Type 1a
Switches for appliances and automatic controls for electrical household appliances Measuring relays and protection equipment	Certificate of Conformity (CoC) - Scheme Type 1a
Electrical Engineering	DEKRA
Batteries Primary batteries Secondary cells and batteries containing alkaline or other non-acid electrolytes, Nickel systems Secondary cells and batteries containing alkaline or other non-acid electrolytes, Lithium systems Stationary electrical energy storage systems intended for connection to the low voltage grid Stationary battery energy storage systems with lithium batteries	Certificate of Conformity (CoC) - Scheme Type 1a
IT and Office Equipment	Certificate of Conformity (CoC) - Scheme Type 1a







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Electrical Engineering	DEKRA
Electrical equipment for measurement, control, and laboratory use	Certificate of Conformity (CoC) - Scheme Type 1a
Plug, socket outlets, cord extension set	Certificate of Conformity (CoC) - Scheme Type 1a
Lamp control gear	Certificate of Conformity (CoC) - Scheme Type 1a
• Lamps	Certificate of Conformity (CoC) - Scheme Type 1a
Transformers, reactors, power supply units and combinations	Certificate of Conformity (CoC) - Scheme Type 1a
Installation Accessories and Connection Devices Power electronic converter systems and equipment Bi-directional grid-connected power converters	Certificate of Conformity (CoC) - Scheme Type 1a
Low voltage, high power switching equipment Low-voltage switchgear and control gear assemblies PV Combiner Box	Certificate of Conformity (CoC) - Scheme Type 1a
Cables and Cords Cable management - Cable tray systems and cable ladder systems Cable management systems – Cable ties for electrical installations Cable cleats for electrical installations Caxial communication cables Communication cable Multicore and symmetrical pair/quad cables for digital communications Optical fibre cables Automotive cables	Certificate of Conformity (CoC) - Scheme Type 1a
Installation Protective Equipment	Certificate of Conformity (CoC) - Scheme Type 1a





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Energy Efficiency	DEKRA
Luminaires	Certificate of Conformity (CoC) - Scheme Type 1a
Lamp control gear	Certificate of Conformity (CoC) - Scheme Type 1a
• Lamps	Certificate of Conformity (CoC) - Scheme Type 1a
Household and similar electrical appliances Refrigerating Appliances – RTCA 97.01.81:22 Refrigerating Appliances – RTE INEN 009(1R):2019+	Certificate of Conformity (CoC) - Scheme Type 1a
Photovoltaics Power converters for use in photovoltaic power systems PV inverter Photovoltaic systems - Power conditioners Grid connected photovoltaic inverters Grid connected photovoltaic inverters or generator Battery charge controllers for photovoltaic systems	Certificate of Conformity (CoC) - Scheme Type 1a Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators. Rozporządzenie Komisji (UE) 2016/631 z dnia 14 kwietnia 2016 r. ustanawiające kodeks sieci dotyczący wymagań dotyczących przyłączenia wytwórców do sieci. General Application Requirements resulting from the EU Commission Regulation 2016/631 of April 14, 2016 (PSE 2018-12-18) Wymogi Ogólnego Stosowania wynikające z rozporządzenia komisji UE 2016/631 z dnia 14 kwietnia 2016 r. ustanawiającego kodeks sieci dotyczący wymogów w zakresie przyłączenia jednostek wytwórczych do sieci - zatwierdzone Decyzją Prezesa Urzędu Regulacji Energetyki DRE.WOSE.7128.550.2.2018.ZJ z dnia 2 stycznia 2019 r. Conditions and procedures for the use of certificates in the process of connecting power generating modules to power grids. (PTPiREE 2021-04-28) Warunki i procedury wykorzystania certyfikatów w procesie przyłączenia modułów wytwarzania energii do sieci elektroenergetycznych





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Road Vehicle	DEKRA
Electrical Vehicles	Certificate of Conformity (CoC) - Scheme Type 1a
Miscellaneous	DEKRA
Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (RoHS)	Certificate of Conformity (CoC) - Scheme Type 1a

Notes:

The product certification used most closely resembles a product certification scheme type as described in ISO/IEC 17067 (2013), Conformity assessment — Fundamentals of product certification and guidelines for product certification schemes.

- a. Type 1a: In this scheme, one or more samples of the product are subjected to the determination activities. A certificate of conformity or other statement of conformity (e.g. a letter) is issued for the product type, the characteristics of which are detailed in the certificate or a document referred to in the certificate. Subsequent production items are not covered by the certification body's attestation of conformity.
 - The samples are representative of subsequent production items which could be referred to by the manufacturer as being manufactured in accordance with the certified type. The certification body may grant to the manufacturer the right to use the type certificate or other statement of conformity (e.g. letter) as a basis for the manufacturer to declare that subsequent production items conform to the specified requirements.
- b. Type 5: The surveillance part of this scheme allows for the choice between periodically taking samples of the product either from the point of production, or from the market, or from both, and subjecting them to determination activities to check that items produced subsequent to the initial attestation fulfill the specified requirements. The surveillance includes periodic assessment of the production process, or audit of the management system, or both. The extent to which the four surveillance activities are conducted may be varied for a g



