



# CERTIFICATE OF ACCREDITATION

*This is to attest*

## **DEKRA TESTING AND CERTIFICATION (SHANGHAI) LTD.**

NO.250, JIANGCHANGSAN ROAD, JING'AN DISTRICT  
SHANGHAI, 200436, 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 May 13, 2025



*International Accreditation Service*  
Issued under the authority of IAS management

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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## DEKRA TESTING AND CERTIFICATION (SHANGHAI) LTD.

NO.250, JIANGCHANGSAN ROAD, JING'AN DISTRICT

SHANGHAI, 200436, CHINA

[www.dekra.com.cn](http://www.dekra.com.cn)

**Contact Name** Wayne Wang

**Contact Phone** +86-2160567603

Accredited to *ISO/IEC 17065:2012*

*Effective Date May 13, 2025*

Product Category and Sub-Category	Certification Scheme and Scheme Owner / Standard
<b>Low Voltage Electrical Equipment and Appliances</b>	<b>DEKRA</b>
<ul style="list-style-type: none"><li>Household and similar electrical appliances</li></ul>	DEKRA Seal Scheme – Scheme Type 5 Certificate of Conformity (CoC) – Scheme Type 1a
<ul style="list-style-type: none"><li>Luminaires</li></ul>	Certificate of Conformity (CoC) - Scheme Type 1a
<ul style="list-style-type: none"><li>Audio, video and similar electronic apparatus, information and communication technology equipment</li></ul>	Certificate of Conformity (CoC) - Scheme Type 1a
<ul style="list-style-type: none"><li>Switches for appliances and automatic controls for electrical household appliances<ul style="list-style-type: none"><li>Measuring relays and protection equipment</li></ul></li></ul>	Certificate of Conformity (CoC) - Scheme Type 1a
<ul style="list-style-type: none"><li>Telecommunication Devices</li></ul>	Saudi Standards, Metrology and Quality Organization (SASO) Technical Regulation for Communications and Information Technology Devices M.A-196-23 04-02-02 Scheme Type 1a



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Electrical Engineering	DEKRA
<ul style="list-style-type: none"> <li>Batteries                             <ul style="list-style-type: none"> <li>Primary batteries</li> <li>Secondary cells and batteries containing alkaline or other non-acid electrolytes, Nickel systems</li> <li>Secondary cells and batteries containing alkaline or other non-acid electrolytes, Lithium systems</li> <li>Stationary electrical energy storage systems intended for connection to the low voltage grid</li> <li>Stationary battery energy storage systems with lithium batteries</li> </ul> </li> </ul>	Certificate of Conformity (CoC) - Scheme Type 1a
<ul style="list-style-type: none"> <li>IT and Office Equipment                             <ul style="list-style-type: none"> <li>Uninterruptible power systems (UPS)</li> </ul> </li> </ul>	Certificate of Conformity (CoC) - Scheme Type 1a
Electrical Engineering	DEKRA
<ul style="list-style-type: none"> <li>Electrical equipment for measurement, control, and laboratory use</li> </ul>	Certificate of Conformity (CoC) - Scheme Type 1a
<ul style="list-style-type: none"> <li>Plug, socket outlets, cord extension set</li> </ul>	Certificate of Conformity (CoC) - Scheme Type 1a
<ul style="list-style-type: none"> <li>Lamp control gear</li> </ul>	Certificate of Conformity (CoC) - Scheme Type 1a
<ul style="list-style-type: none"> <li>Lamps</li> </ul>	Certificate of Conformity (CoC) - Scheme Type 1a
<ul style="list-style-type: none"> <li>Transformers, reactors, power supply units and combinations</li> </ul>	Certificate of Conformity (CoC) - Scheme Type 1a
<ul style="list-style-type: none"> <li>Installation Accessories and Connection Devices                             <ul style="list-style-type: none"> <li>Power electronic converter systems and equipment</li> </ul> </li> <li>Bi-directional grid-connected power converters</li> </ul>	Certificate of Conformity (CoC) - Scheme Type 1a
<ul style="list-style-type: none"> <li>Installation Accessories and Connection Devices                             <ul style="list-style-type: none"> <li>Power electronic converter systems and equipment</li> <li>Bi-directional grid-connected power converters</li> </ul> </li> </ul>	Certificate of Conformity (CoC) - Scheme Type 1a
<ul style="list-style-type: none"> <li>Low voltage, high power switching equipment                             <ul style="list-style-type: none"> <li>Low-voltage switchgear and control gear assemblies</li> <li>PV Combiner Box</li> </ul> </li> </ul>	Certificate of Conformity (CoC) - Scheme Type 1a



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<ul style="list-style-type: none"> <li>• Cables and Cords <ul style="list-style-type: none"> <li>○ Cable management - Cable tray systems and cable ladder systems</li> <li>○ Cable management systems – Cable ties for electrical installations</li> <li>○ Cable cleats for electrical installations</li> <li>○ Coaxial communication cables</li> <li>○ Communication cable</li> <li>○ Multicore and symmetrical pair/quad cables for digital communications</li> <li>○ Optical fibre cables</li> <li>○ Automotive cables</li> </ul> </li> </ul>	Certificate of Conformity (CoC) - Scheme Type 1a
<ul style="list-style-type: none"> <li>• Installation Protective Equipment <ul style="list-style-type: none"> <li>○ Lightning protection system components (LPSC)</li> <li>○ SPD multi-function(s) monitoring devices</li> </ul> </li> </ul>	Certificate of Conformity (CoC) - Scheme Type 1a
<b>Energy Efficiency</b>	<b>DEKRA</b>
<ul style="list-style-type: none"> <li>• Electric Vehicle Supply Equipment</li> </ul>	ENERGY STAR® - Program Requirements for Electric Vehicle Supply Equipment - Scheme Type 5
<ul style="list-style-type: none"> <li>• Luminaires</li> </ul>	Certificate of Conformity (CoC) - Scheme Type 1a
<ul style="list-style-type: none"> <li>• Lamp control gear</li> </ul>	Certificate of Conformity (CoC) - Scheme Type 1a
<ul style="list-style-type: none"> <li>• Lamps</li> </ul>	Certificate of Conformity (CoC) - Scheme Type 1a
<ul style="list-style-type: none"> <li>• Household and similar electrical appliances <ul style="list-style-type: none"> <li>○ Refrigerating Appliances – RTCA 97.01.81:22</li> <li>○ Refrigerating Appliances – RTE INEN 009(1R):2019+</li> </ul> </li> </ul> <p>M1:2020+M2:2020</p> <ul style="list-style-type: none"> <li>○ Refrigerating Appliances – RTE INEN 035(1R):2020+ M1:2020</li> <li>○ Kitchen Appliances - RTCR 503:2021</li> <li>○ Washing Machines - RTE INEN 077:2013+M1:2013+</li> </ul> <p>M2:2014</p> <ul style="list-style-type: none"> <li>○ Washing Machines - NTE INEN 2659:2013</li> <li>○ Tumble Dryers - RTE INEN 111:2014</li> <li>○ Air conditioners - RTE 072(2R)</li> </ul>	Certificate of Conformity (CoC) - Scheme Type 1a



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<ul style="list-style-type: none"> <li>• Photovoltaics <ul style="list-style-type: none"> <li>○ Power converters for use in photovoltaic power systems</li> <li>○ PV inverter</li> <li>○ Photovoltaic systems - Power conditioners</li> <li>○ Grid connected photovoltaic inverters</li> <li>○ Grid connected photovoltaic inverters or generator</li> <li>○ Battery charge controllers for photovoltaic systems</li> </ul> </li> </ul>	<p>Certificate of Conformity (CoC) - Scheme Type 1a</p> <p>Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators.</p> <p>Rozporządzenie Komisji (UE) 2016/631 z dnia 14 kwietnia 2016 r. ustanawiające kodeks sieci dotyczący wymagań dotyczących przyłączenia wytwórców do sieci.</p> <p>General Application Requirements resulting from the EU Commission Regulation 2016/631 of April 14, 2016 (PSE 2018-12-18)</p> <p>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.</p> <p>Conditions and procedures for the use of certificates in the process of connecting power generating modules to power grids. (PTPIREE)</p> <p>Warunki i procedury wykorzystania certyfikatów w procesie przyłączenia modułów wytwarzania energii do sieci elektroenergetycznych</p>
<p><b>Road Vehicle</b></p>	<p><b>DEKRA</b></p>
<ul style="list-style-type: none"> <li>• Electrical Vehicles <ul style="list-style-type: none"> <li>○ EV Charging System</li> <li>○ EV On-Board Charger</li> <li>○ Road Vehicles – Environment Condition</li> <li>○ Electrically Propelled Road Vehicles —Electric Propulsion Components</li> <li>○ EV charging coupler</li> <li>○ Vehicle connectors</li> <li>○ Vehicle high-voltage connectors</li> </ul> </li> </ul>	<p>Certificate of Conformity (CoC) - Scheme Type 1a</p>
<p><b>Miscellaneous</b></p>	<p><b>DEKRA</b></p>
<ul style="list-style-type: none"> <li>• Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (RoHS)</li> </ul>	<p>Certificate of Conformity (CoC) - Scheme Type 1a</p>



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## 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 fulfil 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 given situation, as defined in the scheme. If the surveillance includes audit of the management system, an initial audit of the management system will be needed.

Type of entity	Company name	Address (Street City, Country)	Contact information
Agency Key Location	DEKRA TESTING AND CERTIFICATION (SHANGHAI) LTD.	NO.1050, XINGXIAN ROAD, JIADING DISTRICT SHANGHAI, 201815 PEOPLE'S REPUBLIC OF CHINA	Wayne Wang

