



Certificate No.

**IECRE.WE.CC.19.0021-R0**

IECRE - IEC System for Certification to Standards Relating to Equipment for Use in Renewable Energy Applications

**COMPONENT CERTIFICATE**

**Wind Turbine**

This certificate is issued to

Hainan Jinpan Smart Technology Co., Ltd.  
No.168-39 Nanhai Avenue  
Haikou City, Hainan Province  
P.R. China 570216

for the component

Jinpan SCLB10-5500/34.5, 5500 kVA, 34.5 kV, 60 Hz, dry type transformer

wind turbine class (class, standard, year)

Unspecific, IEC 61400-1:2005 incl. Amd.1, 2010

This certificate attests compliance with IEC 61400 Series as specified in subsequent pages . It is based on the following reference documents:

Design basis evaluation conformity statement  
Dated

Included in Design Evaluation Conformity Statement

Design evaluation conformity statement  
Dated

IECRE.WE.CS.19.0025-R0  
2019-11-07

Type test conformity statement  
Dated

Not applicable for transformer

Manufacturing conformity statement  
Dated

ME-IECREOD-501-05322-0  
2019-11-07

Final evaluation report  
Dated

FER-CC-IECREOD-501-05322-0  
2019-11-07

The conformity evaluation was carried out in accordance with the rules and procedures of the IECRE System [www.iecre.org](http://www.iecre.org)

The component specification begins on page 2 of this certificate.

Changes in the system design or the manufacturer's quality system are to be approved by the Certification Body. Without approval, the certificate loses its validity.

This certificate is valid until:  
2024-11-06

Approved for issue on behalf of the IECRE  
Certification Body:



Renewables Certification  
Brooktorkai 18  
20457 Hamburg, Germany

Xi Wang / Bente Vestergaard  
Project Manager / Service Line Leader,  
Type and Component Certification  
Hamburg 2019-11-07



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## **COMPONENT CERTIFICATE**

### **Wind Turbine**

#### **Machine parameters**

Design life time: 20 years

#### **Electrical network conditions:**

Normal supply voltage and range: 34.5 kV (+12%/-10%)

Normal supply frequency and range: 60 Hz  $\pm$ 6%

#### **Other environmental conditions:**

Other design conditions: Climatic class C2  
Environmental class E2

#### **Interfaces:**

Interface assumptions, conditions and requirements: The evaluation of the transformer was limited to the transformer itself. Cable connection, installation and interfaces of transformer protection equipment to WTG control system were not in the scope of the evaluation.

#### **Transformer:**

Type: Dry-type cast resin transformer  
SCLB10-5500/34.5, 5500 kVA, 34.5 kV, 60 Hz  
Manufacturer: Hainan Jinpan Smart Technology Co., Ltd.  
Product code: D.TRF SG 4.X  
Rated Voltage: 34.5/0.69 kV  
Rated Power: 5500 kVA  
Degree of Protection: IP00  
Location (e.g. tower bottom): Nacelle

#### **Manuals:**

Operation & maintenance manual: Operation & Maintenance Manual,  
Doc.-No.: DT460860705, Rev. A  
Transport manual: Operation & Maintenance Manual,  
Doc.-No.: DT460860705, Rev. A  
Installation & commissioning. manual: Operation & Maintenance Manual,  
Doc.-No.: DT460860705, Rev. A