



Certificate No.

IECRE.WE.CC.20.0032-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 SCLB10-5500/22, 5500 kVA, 22 kV, 50 Hz, D.TRF SG 4.X dry type transformer

wind turbine class (class, standard, year)

Not applicable

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.20.0048-R0
2020-06-08

Type test conformity statement
Dated

Not applicable for transformer

Manufacturing conformity statement
Dated

ME-IECREOD-501-06212-0
2020-06-08

Final evaluation report
Dated

FER-CC-IECREOD-501-06212-0
2020-06-08

The conformity evaluation was carried out in accordance with the rules and procedures of the IECRE System 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:
2025-06-07

Approved for issue on behalf of the IECRE
Certification Body:



Xi Wang / Bente Vestergaard
Project Manager / Service Line Leader,
Type and Component Certification
Hamburg 2020-06-08

Renewables Certification
Brooktorkai 18
20457 Hamburg, Germany



Certificate No.

IECRE.WE.CC.20.0032-R0

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

COMPONENT CERTIFICATE

Wind Turbine

Machine parameters

Design life time: 20 years

Electrical network conditions:

Normal supply voltage and range: 22 kV (+12/-10%)

Normal supply frequency and range: 50 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
SCLB10-5500/22, 5500 kVA, 22 kV, 50 Hz,
D.TRF SG 4.X

Manufacturer: Hainan Jinpan Smart Technology Co., Ltd.

Product code: D.TRF SG 4.X

Rated Voltage: 22/0.69 kV

Rated Power: 5500 kVA

Degree of Protection: IP00

Location (e.g. tower bottom): Nacelle

Manuals:

Operation & maintenance manual: Operation & Maintenance Manual,
Doc.-No.: DT460861698, Rev. A

Transport manual: Operation & Maintenance Manual,
Doc.-No.: DT460861698, Rev. A

Installation & commissioning. manual: Operation & Maintenance Manual,
Doc.-No.: DT460861698, Rev. A