



Certificate No.

**IECRE.WE.CC.19.0014-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

LM Wind Power  
Jupitervej 6  
6000 Kolding  
Denmark

for the wind turbine component

Rotor Blade LM64.6P

wind turbine class (class, standard, year)

unspecific; OD501, ed.2:2018; OD501-1, ed. 1:2017

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

TÜV NORD: IECRE.WE.CS.19.0017-R1  
2019-08-20

Type test conformity statement  
Dated

TÜV NORD Reg.-No.: 4422019177120-CT-IECRE, Rev. 0  
2019-08-26

Manufacturing conformity statement  
Dated

TÜV NORD Reg.-No.: 4422019177120-CM-IECRE, Rev. 1  
2019-08-20

Final evaluation report  
Dated

TÜV NORD Report-No.: 8116 177 120-20 E II, Rev. 0  
2019-08-26

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:  
2024-08-25

Approved for issue on behalf of the IECRE  
Certification Body:

Dipl.-Ing./M.Sc. M. Lange  
Deputy/Specialist Manager Wind Energy  
Essen, 2019-08-26



TÜV NORD CERT GmbH  
Langemarckstraße 20  
45141 Essen



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## **COMPONENT CERTIFICATE**

### **Wind Turbine**

#### **Machine parameters:**

Design life time: 25 years

#### **Other environmental conditions (where taken into account):**

Temperature ranges:

Power Production: -30 °C to +40 °C  
Survival: -40 °C to +50 °C

Lightning protection system (standard and protection class): IEC 61400-24, ed. 1, LPL 1

#### **Interfaces:**

Design loads for the component: TR-09108, Rev. A4

Interface assumptions, conditions and requirements: Blade bolt assessment not within scope

Other interface conditions:

\*\*If not otherwise stated, the certificate holder is the manufacturer

#### **Blade:**

Type: Modular, 2 main I webs (LE and TE)  
Material: glass fibre reinforced polyester material  
Blade length: 64.6 m  
Specification: BS-00529, Rev. A2  
Main Drawing: DR-09022, Rev. A3  
Blade root connection: 92 inserts

#### **Manuals:**

Handling, Service & Maintenance: BM-00307, Rev. A3

#### **Add-ons:**

GE VGs: optional, ED-08059, Rev. A1, (GE: 446W2545)  
LM VGs: optional, VG MK II  
Serrations: optional, ED-08159, Rev. A2, (GE: 447W0640)  
Ym = 1.05

#### **Partial Safety factor tower clearance**