



Certificate No.

IECRE.WE.CC.19.0016-R1

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

COMPONENT CERTIFICATE

This certificate is issued to

LM Wind Power
Jupitervej 6
6000 Kolding
Denmark

for the component

Rotor Blade LM62.2P2/P3

wind turbine class (class, standard, year)

Unspecific, OD501, OD501-1

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
LM62.2P2
Dated

TÜV NORD: IECRE.WE.CS.19.0018-R0
2019-07-12

Design evaluation conformity statement
LM62.2P3
Dated

TÜV NORD: IECRE.WE.CS.19.0020-R0
2019-11-13

Type test conformity statement
Dated

TÜV NORD Reg.-No.: 4422019518326-CT-IECRE, Rev. 1
2019-11-26

Manufacturing conformity statement
Dated

TÜV NORD Reg.-No.: 4422019518326-CM-IECRE, Rev. 1
2019-11-22

Final evaluation report
Dated

TÜV NORD Report-No.: 8116 518 326-20 E, Rev. 1
2019-11-26

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:
2024-11-21

Approved for issue on behalf of the IECRE
Certification Body:



Dipl.-Ing./M.Sc. M. Lange
Deputy/Specialist Manager Wind Energy
Essen, 2019-11-26

TÜV NORD CERT GmbH
Langemarckstraße 20
45141 Essen



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Machine parameters:

Design life time:

Rotor Blade	20 years
LNTes	20 years
GE VGs	10 year
LM VGs	30 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-10045, Rev. A3

Interface assumptions, conditions and requirements:

Blade bolt assessment not within scope

Other interface conditions:

none

**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:

62.2 m

Specification:

P2: BS-00550, Rev. A2

P3: BS-00909, Rev. A1

Main Drawing:

DR-08803, Rev. A1

Blade root connection:

92 inserts

Manuals:

Handling, Service & Maintenance:

P2: BM-00287, Rev. A2

P3: BM-00487, Rev. A1

Add-ons:

LNTes: optional,
ED-08240, Rev. A1, (GE: 446W9149, Rev. A)
ED-08241, Rev. A1 (444W2332)

GE VGs: optional,
ED-05808, Rev. A2 (GE: 444W5843, Rev. -)

LM VGs: optional, VG MK II