

IEC 61701:2011

Salt mist corrosion testing of photovoltaic (PV) modules

Confirmation of test results

Ref.: 10036/2021-40045

Applicant: LG Electronics Inc.

168, Suchul-daero, Gumi-si, Gyeongsangbuk-do, 730-903,

South Korea

Product: Crystalline Silicon Photovoltaic (PV)-Modules

Type: A) LGXXXQ1K-N5

B) LG<u>XXX</u>N1K-L5 C) LG<u>XXX</u>N1K-N5 D) LG<u>XXX</u>N1K-A6 E) LG<u>XXX</u>N1K-B6 F) LG<u>XXX</u>Q1K-A6 G) LG<u>XXX</u>QAK-A6

XXX in the type replaces the power in Watt at STC and can be any number between 360-380 for A), 310-370 for B), C), 345-370 for D), E), 375-390 for F) and 415-430 for G).

Manufacturer: LG Electronics Inc.

Standard: IEC 61701:2011

Test conditions: As given in IEC 61701:2011

Severity: 6

Testing time: 56 days

Mist ph level: 7

Angle of inclination from horizontal: 75°

Pass criteria

Visual inspection: No findings which may affect

safety.

Power degradation: < 5 %

Dry Insulation: $> 40 \text{ M}\Omega\text{m}^2$

Wet insulation: $> 40 \text{ M}\Omega\text{m}^2$

Bonding path resistance: $< 0.1 \Omega$

Bypass diode functionality test: Bypass diodes shall

remain functional

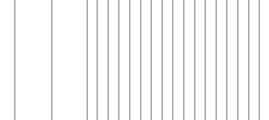
VIDE RENEWABLES GMBH Siemensstraße 30 63755 Alzenau, Germany Managing Director: Burkhard Holder Tel: +49 69 6308 5300 Fax: +49 69 6308 5320 Email: renewables@vde.com www.yde.com/renewables

Location: Alzenau District Court: Aschaffenburg Registration No: HRB 13820 Tax Number: 204/141/20793 Bank Information: Deutsche Bank AG

IBAN: DE14 5007 0010 0235 5006 01

BIC: DEUTDEFFXXX





Summary of test results:

Visual inspection: No findings.

Maximum power degradation: allowed < 5 %

measured max. 1,34 %

The measured degradation is below the limit.

Dry insulation resistance: required ≥23,1 M Ω

measured min. $500 \text{ M}\Omega$

The measured dry insulation resistance is above the limit.

Wet insulation resistance: required ≥23,1 MΩ

measured min. 500 $M\Omega$

The measured wet insulation resistance is above the limit.

Bonding path resistance: required <0,1 Ω

measured max. $0,004 \Omega$

The measured bonding path resistance below the limit.

Bypass diode functionality test: Bypass diodes remain functional

The complete test results and the related bill of materials are given in the Test Report No. TRPVM-2021-40045-4.

VDE Renewables GmbH

io Sato Thomas

63755 Alzenau, 2021-01-25

File Ref.: 10036/2021-40045 Page 2 of 2