



# IEC 61701:2011

## Salt mist corrosion testing of photovoltaic (PV) modules Confirmation of test results

**Ref.:** 10036/2020-40522

**Applicant:** LG Electronics Inc.  
168, Suchul-daero, Gumi-si, Gyeongsangbuk-do,  
730-903, South Korea

**Product:** Crystalline Silicon Photovoltaic (PV)-Modules

**Type:** A) LGXXXN2W-E6  
B) LGXXXN2W-E6.AW5  
C) LGXXXN2T-E6  
D) LGXXXN1C-E6  
E) LGXXXN1W-E6  
F) LGXXXN1K-E6  
G) LGXXXN1T-E6

XXX in the type replace the power in Watt and can be any number between: 430 – 470 for A), B), 420 – 440 for C), 355 – 390 for D), E), 350 – 380 for F) and 345 – 365 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 MΩm<sup>2</sup>

Wet insulation: > 40 MΩm<sup>2</sup>

Bonding path resistance: < 0.1 Ω

Bypass diode functionality test: Bypass diodes shall remain functional



## Summary of test results:

**Visual inspection:** No findings.

**Maximum power degradation:** allowed < 5 %  
measured max. 1,21 %

The measured degradation is below the limit.

**Dry insulation resistance:** required  $\geq 20,2 \text{ M}\Omega$   
measured min. 999  $\text{M}\Omega$

The measured dry insulation resistance is above the limit.

**Wet insulation resistance:** required  $\geq 20,2 \text{ M}\Omega$   
measured min. 999  $\text{M}\Omega$

The measured wet insulation resistance is above the limit.

**Bonding path resistance:** required < 0,1  $\Omega$   
measured max. 0,0295  $\Omega$

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-2020-40522-1 and TRPVM-2020-40523-1.

## VDE Renewables GmbH

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