



# IEC 60068-2-68

## Blowing Sand Test Lc 2

Confirmation of test results

**Ref.:** 10036/2018-40205

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

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

**Type:** LGXXXN1K-V5  
  
XXX in the type replaces the power in Watt at STC and can be any number between 315 – 340

**Manufacturer:** LG Electronics Inc.

**Standard:** IEC 60068-2-68, Test method Lc 2 plus  
TechnoLab Sand Test PA03/01 and AECTP 300,  
method 313

**Test sequence and Pass/fail criteria:** Based on IEC 61701:2011

**Average particle size:** 380 µm

**Concentration:** 2,5 (± 0,5) g/m<sup>3</sup>

**Sand composition:** ASIA Desert, 97% SiO<sub>2</sub>

**Wind speed:** 9 m/s

**Testing time:** 6 h (4 positions, 90 minutes testing time each)



### Summary of test results:

<b>Maximum power degradation:</b>	allowed	max. 5 %
	measured	max. 0,45 %

The measured degradation is below the allowed degradation.

<b>Dry insulation resistance:</b>	required	23,4 M $\Omega$
	measured	>500 M $\Omega$

The measured dry insulation resistance is above the limit.

<b>Wet insulation resistance:</b>	required	23,4 M $\Omega$
	measured	>500 M $\Omega$

The measured wet insulation resistance is above the limit.

**Visual inspection:** No findings

The complete test results and the relevant BOM are given in Test Report No.: TRPVM-2018-40205-1.

### VDE Renewables GmbH

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