



IEC 60068-2-68

Blowing Sand Test Lc 2

Confirmation of test results

Ref.: 10036/2018-40206

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

Product: Crystalline Silicon Photovoltaic (PV)-Modules

Type: A) LGXXXN1C-A5
A) LGXXXN1W-A5
A) LGXXXN1C-V5
A) LGXXXN1W-V5
B) LGXXXN2W-V5
B) LGXXXN2W-A5

XXX in the type replaces the power in Watt at STC and can be any number between 315 – 340 for A), 390 – 405 for B)

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/m³

Sand composition: ASIA Desert, 97% SiO₂

Wind speed: 9 m/s

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



Summary of test results:

Maximum power degradation:	allowed	max. 5 %
	measured	max. 0,55 %

The measured degradation is below the allowed degradation.

Dry insulation resistance:	required	19,4 M Ω
	measured	>500 M Ω

The measured dry insulation resistance is above the limit.

Wet insulation resistance:	required	19,4 M Ω
	measured	>500 M Ω

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-2018-40206-1.

VDE Renewables GmbH

Akio Sato

Arnd Roth

63755 Alzenau, 2018-10-22

