

IEC TS 62804-1:2015

Photovoltaic (PV) Modules - Test Methods for the detection of potential induced degradation

Part 1: Crystalline silicone
Confirmation of test results

File Ref.: 10004/2023-40217

Applicant: Changzhou EGing Photovoltaic Technology Co., Ltd.

No. 18 Jinwu Road, 213213 Jintan City, China

Product: Crystalline silicon Photovoltaic (PV)-Modules

Type: CK) EG-XXXNT78-HL/BF-DG CC) EG-XXXNT72-HL/BF-DG

CD) EG-XXXNT60-HL/BF-DG CE) EG-XXXNT54-HL/BF-DG

XXX in the type replaces the power in watt and can be any number

between:

615 - 645 for CK) 550 - 595 for CC) 460 - 495 for CD) 415 - 445 for CE)

Manufacturer: Changzhou EGing Photovoltaic Technology Co., Ltd.

Standard: IEC TS 62804-1:2015

Test conditions

Testing time: 96 h

Chamber temperature: 85°C

Relative humidity: 85 %

Potential to ground: +/- 1500 V

Pass criteria

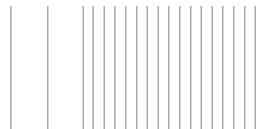
Power Degradation: < 5%

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

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

Visual Inspection: No findings





Summary of test results:

Maximum Power Degradation: allowed max. 5 %

measured max. 0.35 %

The measured degradation is below the maximum allowed degradation.

Dry Insulation Resistance: required min. 14.3 $M\Omega$

measured $>1000 M\Omega$

The measured dry insulation resistance is above the min. required dry insulation resistance.

Wet Insulation Resistance: required min. 14.3 $M\Omega$

measured $>1000 M\Omega$

The measured wet insulation resistance is above the minimum required wet insulation resistance.

Visual Inspection: No findings

The complete test results and the relevant bill of materials are given in Test Report No.: TRPVM-2023-40217-2.

The overview of the already approved modules with the approved bill of materials is given in Annex 1, dated 2023-10-12.

VDE Renewables GmbH

Dean Wen Arnd Roth

63755 Alzenau, 2023-10-12

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