

## 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

VDE Renewables File Ref.: 10011/ ET-20221016-187

**Applicant:** Wuxi Suntech Power Co., Ltd.

16 Xin Hua Road, Xinwu District, 214028 Wuxi City, China

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

Type: A) STPXXXS-C72/Nsh+ B) STPXXXS-C54/Nshb+

B) STPXXXS-C54/Nsh+ B) STPXXXS-C54/Nshm+

XXX in the type replace the power in Watt and can be any number between:

545 – 580 for A); 405 – 435 for B)

Manufacturer: Wuxi Suntech Power Co., Ltd.

**Standard:** IEC TS 62804-1:2015

**Test conditions** 

Testing time: 192 h

Chamber temperature: 85°C

Relative Humidity: 85 %

Potential to ground: ± 1500 V

Pass criteria

Power degradation: < 5%

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

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

BIC: DEUTDEFFXXX



## **Summary of test results:**

Maximum power degradation: allowed

max. 5 %

measured

max. 2.01 %

The measured degradation is below the allowed degradation.

**Dry insulation resistance:** 

required

min. 15.5  $M\Omega$ 

measured

>500 MΩ

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

Wet insulation resistance:

required

min. 15.5 MΩ

measured

>500 MΩ

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-ET-20221016-187-3.

**VDE Renewables GmbH** 

Zhiyao Wang

Shanghai, 2023-02-02

Dean Wen

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