



# 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

**Ref.:** 10011/2020-40066

**Applicant:** Wuxi Suntech Power Co., Ltd.  
16 Xin Hua Road, Xinwu District, 214028 Wuxi City, China

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

**Type:** A) STPXXS-B72/Pnh+, STPXXS-B72/Pnhm+  
B) STPXXS-B60/Pnh+, STPXXS-B60/Pnhm+

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

425 – 450 for A)      350 – 375 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:  $\pm 1500$  V

## Pass criteria

Power degradation: < 5%

Dry Insulation: > 40 M $\Omega$ m<sup>2</sup>

Wet insulation: > 40 M $\Omega$ m<sup>2</sup>

Ground continuity: < 0.1 $\Omega$



### Summary of test results:

<b>Maximum power degradation:</b>	allowed	max. 5 %
	measured	max. 1.01 %

The measured degradation is below the allowed degradation.

<b>Dry insulation resistance:</b>	required	min. 18.3 M $\Omega$
	measured	>500 M $\Omega$

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

<b>Wet insulation resistance:</b>	required	min. 18.3 M $\Omega$
	measured	>500 M $\Omega$

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

<b>Ground continuity test:</b>	allowed	max. 0.1 $\Omega$
	measured	max. 0.0040 $\Omega$

The measured resistance is below the max. allowed resistance.

**Visual inspection:** No findings

The complete test results and the relevant bill of materials are given in Test Report No.: TRPVM-2020-40066-4.

### VDE Renewables GmbH

  
**Dean Wen**

  
**Arnd Roth**

63755 Alzenau, 2020-07-08