



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.: 10011/2019-40560

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-A78/Vfh	B) STPXXXS-A78H/Vfh
C) STPXXXS-A72/Vfh	D) STPXXXS-A72H/Vfh
E) STPXXXS-A72/Vfhh	F) STPXXXS-A66/Wfh
G) STPXXXS-A66H/Wfh	H) STPXXXS-A66/Wfhh
I) STPXXXS-A66/Wfhh	J) STPXXXS-A66H/Wfhh
K) STPXXXS-A60/Wfh	L) STPXXXS-A60H/Wfh
M) STPXXXS-A60/Wfhh	N) STPXXXS-A60H/Wfhh

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

400 – 440 for A), B);	360 – 405 for C), D), E);
335 – 370 for F), G), H), I), J);	300 – 335 for K), L), M), N)

Manufacturer: Wuxi Suntech Power 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:	> 40 MΩm ²
Wet insulation:	> 40 MΩm ²
Ground continuity:	< 0.1Ω



Summary of test results:

Maximum power degradation:	allowed	max. 5 %
	measured	max. 2.08 %

The measured degradation is below the allowed degradation.

Dry insulation resistance:	required	19.9 M Ω
	measured	>500 M Ω

The measured dry insulation resistance is above the limit.

Wet insulation resistance:	required	19.9 M Ω
	measured	>500 M Ω

The measured wet insulation resistance is above the limit.


Ground continuity test:	required	max. 0.1 Ω
	measured	max. 0.0038 Ω

Visual inspection:	No findings
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The complete test results and the relevant bill of materials are given in Test Report No.: TRPVM-2019-40560-4.

VDE Renewables GmbH


Dean Wen


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63755 Alzenau, 2020-03-05