



IEC 61701:2020

Salt mist corrosion testing of photovoltaic (PV) modules

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 61701:2020, Salt mist corrosion test

Test conditions

Test method:	6
Testing time:	1344 hrs
Chamber temperature:	40°C
Relative Humidity:	93 %
Mist pH level:	7

Pass criteria

Power degradation:	< 5%
Dry Insulation:	> 40 MΩm ²
Wet insulation:	> 40 MΩm ²
Ground continuity:	< 0.1Ω

Bypass diode functionality: Shall be functional after test





Summary of test results:

Maximum power degradation:	allowed	max. 5 %
	measured	max. 0.86 %

The measured degradation is below the allowed degradation.

Dry insulation resistance:	required	min. 15.5 M Ω
	measured	>500 M Ω

The measured dry insulation resistance is above the limit.

Wet insulation resistance:	required	min. 15.5 M Ω
	measured	>500 M Ω

The measured wet insulation resistance is above the limit.

Visual inspection:	No findings
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Ground continuity test:	allowed	max. 0.1 Ω
	measured	max. 0.0171 Ω

Bypass diode functionality test: Still functional after test

The complete test results and the relevant bill of materials are given in Test Report No.: TRPVM-ET-20221016-187-13

VDE Renewables GmbH

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