



IEC 61701:2011

Salt mist corrosion testing of photovoltaic (PV) modules

Confirmation of test results

VDE Renewables File Ref.: 10011/2020-40028

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

Product: Crystalline silicon Photovoltaic (PV)-Modules

Type:

A) STPXXXS-B72/Vnh	B) STPXXXS-B72H/Vnh
C) STPXXXS-B60/Wnh	D) STPXXXS-B60H/Wnh
E) STPXXXS-B60/Wnhm	F) STPXXXS-B60/Wnhb
G) STPXXXS-A72/Vnh	H) STPXXXS-A72H/Vnh
I) STPXXXS-A60/Wnh	J) STPXXXS-A60H/Wnh
K) STPXXXS-A60/Wnhb	L) STPXXXS-A60/Wnhm
M) STPXXX-A72/Vfh	N) STPXXX-A72H/Vfh
O) STPXXX-A60/Wfh	P) STPXXX-A60H/Wfh

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

415 – 445 for A), B)	345 – 370 for C), D), E), F)
365 – 410 for G), H)	305 – 340 for I), J), K), L)
325 – 390 for M), N)	275 – 325 for O), P)

Manufacturer: Wuxi Suntech Power Co., Ltd.

Standard: IEC 61701:2011, Salt mist corrosion test

Test conditions

Severity level:	6
Testing time:	1344 h
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. 0.81 %

The measured degradation is below the allowed degradation.

Dry insulation resistance:	required	min. 18.0 M Ω
	measured	>1000 M Ω

The measured dry insulation resistance is above the limit.

Wet insulation resistance:	required	min. 18.0 M Ω
	measured	>1000 M Ω

The measured wet insulation resistance is above the limit.

Ground continuity test:	required	max. 0.1 Ω
	measured	max. 0.0051 Ω


The measured ground continuity test is below the limit.

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-2020-40028-2.

VDE Renewables GmbH


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