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
A) STPXXXS-C72/Nshb
A) STPXXXS-C72/Nshm
B) STPXXXS-C54/Nsh
B) STPXXXS-C54/Nshb
B) STPXXXS-C54/Nshm
B) STPXXXS-C54/Nshy

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 MΩm²
Wet insulation:	> 40 MΩm²

VDE RENEWABLES GMBH
Siemensstraße 30
63755 Alzenau, Germany
Managing Director: Burkhard Holder

Tel: +49 69 6308 5300
Fax: +49 69 6308 5320
Email: renewables@vde.com
www.vde.com/renewables

Location: Alzenau
District Court: Aschaffenburg
Registration No: HRB 13820
Tax Number: 204/141/20793

Bank Information:
Deutsche Bank AG
IBAN: DE14 5007 0010 0235 5006 01
BIC: DEUTDEFFXXX

Summary of test results:

Maximum power degradation:	allowed	max. 5 %
	measured	max. 1.21 %

The measured degradation is below the allowed degradation.

Dry insulation resistance:	required	min. 15.5 MΩ
	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-20221016-187-4.

VDE Renewables GmbH

Zhiyao Wang

Zhiyao Wang

Shanghai, 2023-02-02

Dean Wen