



# TS IEC 62804-1:2015

Photovoltaic (PV) Modules - Test Methods for the detection of potential-induced degradation

Part 1: Crystalline silicone  
Confirmation of test results

**Ref.:** TRPVM-ET-20190521-077

**Applicant:** Sharp Corporation  
282-1, Hajikami, Katsuragi-shi 639-2198 NARA (NARA-KEN),  
Japan

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

**Type:**

A)	ND-AF330C
B)	ND-AF330E
C)	ND-AC275
D)	NU-AC310
E)	NU-AF365
F)	NU-AF365E
G)	NU-AF370
H)	NU-AF370E
I)	NU-AF345H
J)	NU-AC300B

**Manufacturer:** JINZHOU YANGGUANG ENERGY CO., LTD.

**Standard:** TS IEC 62804-1:2015

## Test conditions

Testing time:	96 h
Chamber temperature:	60°C
Relative Humidity:	85 %
Potential to ground:	- 1000 V

## Pass criteria

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



### Summary of test results:

<b>Maximum power degradation:</b>	allowed	max. 5 %
	measured	max. 2.2 %

The measured degradation is below the allowed degradation.

<b>Dry insulation resistance:</b>	required	20.6 MΩ
	measured	>500 MΩ

<b>Wet insulation resistance:</b>	required	20.6 MΩ
	measured	>500 MΩ

The measured wet insulation resistance is above the limit.

<b>Ground continuity test:</b>	required	max. 0.1Ω
	measured	max. 0.001Ω

<b>Visual inspection:</b>	No findings
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The complete test results and the relevant bill of materials are given in Test Report No.: TRPVM-ET-20190521-077-1, TRPVM-ET-20190521-077-2 and TRPVM-ET-20190521-077-3.

### VDE Renewables GmbH

  
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