



# 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.:** 10311/2021-40733

**Applicant:** Zhejiang Beyondsun Green Energy Technology Co., Ltd.  
No.888, Zhili Section of G318 Zhili Town, Huzhou City, Zhejiang province, China.

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

**Type:** BA) TSHMXXX-144HV      BB) TSHMXXX-132HV  
BC) TSHMXXX-120HV      BD) TSHMXXX-108HV  
BE) TSHMXXX-96HV      BF) TSHMXXX-72HV  
BM) TSHMXXX-132HS      BN) TSHMXXX-120HS  
BO) TSHMXXX-108HS

XXX in the type replaces the power in watt and can be any number between:

520 – 550 for BA)	480 – 500 for BB)	435 – 455 for BC)
390 – 410 for BD)	345 – 365 for BE)	260 – 275 for BF)
640 – 665 for BM)	580 – 605 for BN)	520 – 545 for BO)

**Manufacturer:** Zhejiang Beyondsun Green Energy Technology 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 / +1500V

## Pass criteria

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



### Summary of test results:

<b>Maximum power degradation:</b>	allowed	max. 5 %
	measured	max. 0.99 %

The measured degradation is below the allowed degradation.

<b>Dry insulation resistance:</b>	required	min. 40 MΩm <sup>2</sup>
	measured	>1500 MΩ

The measured dry insulation resistance is above the minimum required dry insulation resistance.


<b>Wet insulation resistance:</b>	required	min. 40 MΩm <sup>2</sup>
	measured	>1500 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-2021-40733-4.

### VDE Renewables GmbH

  
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