



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 ² |
| Wet insulation: | > 40 MΩm ² |



Summary of test results:

| | | |
|-----------------------------------|----------|-------------|
| Maximum power degradation: | allowed | max. 5 % |
| | measured | max. 0.99 % |

The measured degradation is below the allowed degradation.

| | | |
|-----------------------------------|----------|--------------------------|
| Dry insulation resistance: | required | min. 40 MΩm ² |
| | measured | >1500 MΩ |

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

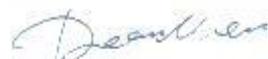
| | | |
|-----------------------------------|----------|--------------------------|
| Wet insulation resistance: | required | min. 40 MΩm ² |
| | measured | >1500 MΩ |

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


Dean Wen


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