



IEC TS 62804-1:2015

Photovoltaic (PV) Modules - Test Methods for the detection of potential-induced degradation
Part 1: Crystalline silicone

Ref.: 10018/2021-40347

Applicant: REC SOLAR PTE. LTD.
20 Tuas South Avenue 14, 637312 Singapore

Product: Crystalline Silicon Photovoltaic (PV)-Modules

Type:

| | |
|----------------------|-----------------------------------|
| A) RECxxxTP2 | REC TwinPeak 2 Series |
| A) RECxxxTP2M | REC TwinPeak 2 Mono Series |
| A) RECxxxTP3M | REC TwinPeak 3 Mono Series |
| B) RECxxxTP2S 72 | REC TwinPeak 2S 72 Series |
| B) RECxxxTP2SM 72 | REC TwinPeak 2S Mono 72 Series |
| B) RECxxxNP 72 | REC N-Peak 72 Series |
| B) RECxxxTP3SM 72 | REC TwinPeak 3S Mono 72 Series |
| C) RECxxxTP2S 72 XV | REC TwinPeak 2S 72 XV Series |
| C) RECxxxTP2SM 72 XV | REC TwinPeak 2S Mono 72 XV Series |
| C) RECxxxNP 72 XV | REC N-Peak 72 XV Series |
| C) RECxxxTP3SM 72 XV | REC TwinPeak 3S Mono 72 XV Series |
| D) RECxxxNP | REC N-Peak Series |
| E) RECxxxAA | REC Alpha Series |
| F) RECxxxAA 72 | REC Alpha 72 Series |
| G) RECxxxAA 72 XV | REC Alpha 72 XV Series |
| H) RECxxxTP Plus | REC TwinPeak Plus Series |
| I) RECxxxNP Plus | REC N-Peak Plus Series |
| J) RECxxxTP4 | REC TwinPeak 4 Series |
| K) RECxxxAA Pure | REC Alpha Pure Series |
| L) RECxxxNP2 | REC N-Peak 2 Series |

xxx in the type number replaces the power in Watt at STC and can be any number between: 260 – 340 for A), 310 – 405 for B) & C), 295 – 335 for D), 340 – 380 for E), 420 – 450 for F) & G), 340 – 365 for H), 335 – 370 for I), 355 – 380 for J), 385 – 410 for K), 355 – 380 for L)

Optional the type can also include at the end any of the following suffixes, or a combination of these: ECO, BLK, BLK2, IQ, Black



Manufacturer: REC SOLAR PTE. LTD.

Standard: IEC TS 62804-1:2015

Test conditions

Testing time: 600 h

Chamber temperature: 85°C

Relative Humidity: 85 %

Potential to ground: +1000 V / -1000 V

Pass criteria:

Power degradation: < 5%

Summary of test results:

| | | |
|-----------------------------------|----------|-------------|
| Maximum power degradation: | allowed | max. 5 % |
| | measured | max. 3.98 % |

The measured max. degradation is below the allowed degradation.

Visual inspection: No findings

The complete test results and the relevant BOM are given in Test Report No. TRPVM-2021-40347-5.

The overview of the already approved modules with the approved bill of materials is given in Annex 1 to 10018/2021-40347, dated 2021-08-26.

VDE Renewables GmbH

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