



# IEC TS 62804-1:2015

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

**Ref.:** 10018/2020-40216

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

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

**Type:**

A) RECxxxPE	REC Peak Energy Series
A) RECxxxPE2SM 50	REC Peak Energy 2S Mono 50 Series
B) RECxxxPE 72	REC Peak Energy 72 Series
C) RECxxxTP	REC TwinPeak Series
C) RECxxxTP2	REC TwinPeak 2 Series
C) RECxxxTP2M	REC TwinPeak 2 Mono Series
C) RECxxxTP3M	REC TwinPeak 3 Mono Series
D) RECxxxPE 72 XV	REC Peak Energy 72 XV Series
E) RECxxxTP 72	REC TwinPeak 72 Series
E) RECxxxTP2S 72	REC TwinPeak 2S 72 Series
E) RECxxxTP2SM 72	REC TwinPeak 2S Mono 72 Series
E) RECxxxNP 72	REC N-Peak 72 Series
E) RECxxxTP3SM 72	REC TwinPeak 3S Mono 72 Serie
F) RECxxxTP 72 XV	REC TwinPeak 72 XV Series
F) RECxxxTP2S 72 XV	REC TwinPeak 2S 72 XV Series
F) RECxxxTP2SM 72 XV	REC TwinPeak 2S Mono 72 XV Series
F) RECxxxTP2SB 72 XV	REC TwinPeak 2S 72 XV Bifacial Series
F) RECxxxTP3SM 72 XV	REC TwinPeak 3S Mono 72 XV Series
G) RECxxxNP	REC N-Peak Series
H) RECxxxAA	REC Alpha Series
I) RECxxxAA 72	REC Alpha 72 Series
J) RECxxxAA 72 XV	REC Alpha 72 XV Series

xxx in the type number replaces the power in Watt at STC and can be any number between:  
205 – 295 for A), 285 – 370 for B) & D), 260 – 335 for C), 310 – 400 for E) & F), 295 – 330 for G),  
340 – 380 for H), 420 – 450 for I) & J).

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: +1500 V / -1500 V

**Pass criteria:**

Power degradation: < 5%

**Summary of test results:**

**Maximum power degradation:** allowed max. 5 %  
measured max. 4.31 %

The measured 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-2020-40216-3 and TRPVM-2020-40216-4.  
Information about the previously approved BOM is given in Annex 1.

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