



TS IEC 62804-1:2015

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

Ref.: 5017538-3972-0001
10018/2016-40250

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) RECxxxPE Plus#	REC Peak Energy Plus Series
A) RECxxxPED#	REC Peak Energy Dark Series
A) RECxxxPEI#	REC Peak Energy Integrated Series
A) RECxxxPE-EU#	REC Peak Energy EU Series
A) RECxxxPE2#	REC Peak Energy 2 Series
A) RECxxxPE Z-Link#	REC Peak Energy Z-Link Series
A) RECxxxPE Z-Link-S#	REC Peak Energy Z-Link-S Series
A) RECxxxPEM#	REC Peak Energy Mono Series
A) RECxxxPE Z-Link-M#	REC Peak Energy Z-Link-M Series
A) RECxxxPE2M#	REC Peak Energy 2 Mono Series
B) RECxxxPE 72#	REC Peak Energy 72 Series
B) RECxxxPEM 72#	REC Peak Energy Mono 72 Series
B) RECxxxPE2 72#	REC Peak Energy 2 72 Series
B) RECxxxPE2M 72#	REC Peak Energy 2 Mono 72 Series
B) RECxxxPE2S 72#	REC Peak Energy 2S 72 Series
B) RECxxxPE2SM 72#	REC Peak Energy 2S Mono 72 Series
C) RECxxxTP#	REC TwinPeak Series
C) RECxxxTP2#	REC TwinPeak 2 Series
C) RECxxxTP2L#	REC TwinPeak 2L Series
C) RECxxxTP2M#	REC TwinPeak 2 Mono Series
C) RECxxxTP2SM#	REC TwinPeak 2S Mono Series
C) RECxxxTP2SL#	REC TwinPeak 2SL Series
D) RECxxxPE 72 XV#	REC Peak Energy 72 XV Series
D) RECxxxPE2 72 XV#	REC Peak Energy 2 72 XV Series
D) RECxxxPE2M 72 XV#	REC Peak Energy 2 Mono 72 XV Series
D) RECxxxPE2S 72 XV#	REC Peak Energy 2S 72 XV Series
D) RECxxxPE2SM 72 XV#	REC Peak Energy 2S Mono 72 XV Series
E) RECxxxTP 72#	REC TwinPeak 72 Series
E) RECxxxTP2M 72#	REC TwinPeak 2 Mono 72 Series
E) RECxxxTPM 72#	REC TwinPeak Mono 72 Series
E) RECxxxTP2 72#	REC TwinPeak 2 72 Series
E) RECxxxTP2S 72#	REC TwinPeak 2S 72 Series
E) RECxxxTP2SM 72#	REC TwinPeak 2S Mono 72 Series
F) RECxxxTP 72 XV#	REC TwinPeak 72 XV Series
F) RECxxxTP2 72 XV#	REC TwinPeak 2 72 XV Series
F) RECxxxTP2M 72 XV#	REC TwinPeak 2 Mono 72 XV Series
F) RECxxxTP2S 72 XV#	REC TwinPeak 2S 72 XV Series
F) RECxxxTP2SM 72 XV#	REC TwinPeak 2S Mono 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 – 310 for C), 310 – 380 for E) & F)

in the type number can be with or without any of the following suffixes or a combination of these:
ECO, BLK, BLK2, IQ





TS IEC 62804-1:2015

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

Manufacturer: REC Solar Pte Ltd
Standard: TS IEC 62804-1:2015, modified

Test conditions

Testing time: 600 h
Chamber temperature: 85°C
Relative Humidity: 85 %
Potential to ground: - 1500 V

Pass criteria

Power degradation: < 5%

Summary of test results:

Maximum power degradation: required max. 5 %
measured max. 1.15 %

The measured degradation is below the allowed degradation.

Visual inspection: No findings

The complete test results are given in Test Report No.: TRPVM-2016-40250-1, TRPVM-2016-40250-2 and TRPVM-2016-40250-3.

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Fachgebiet ET2 / Section ET2

Akio Sato

Arnd Roth

63069 Offenbach, 2017-01-13





TS IEC 62804-1:2015

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

Ref.: 10018/2017-40431

Applicant: REC Solar Pte., Ltd.
20 Tuas South Avenue 14, 637312 Singapore

Product: Crystalline Silicon Photovoltaic (PV)-Modules

Type: RECxxxNP

XXX in the type replaces the power in Watt at STC and can be any number between 295 – 330.

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

Manufacturer: REC Solar Pte Ltd

Standard: TS IEC 62804-1:2015

Test conditions

Testing time: 96 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. 1.78 %

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-2017-40431-1

VDE Renewables GmbH

Akio Sato

Arnd Roth

63755 Alzenau, 2018-08-13