



Confirmation of Test Results

Ref.: 10018/2023-40456

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
K) RECxxxAA Pure-P	REC Alpha Pure-P Series
L) RECxxxNP2	REC N-Peak 2 Series
M) RECxxxAA Pure-R	REC Alpha Pure-R Series
N) RECxxxNP3	REC N-Peak 3 Series
O) RECxxxTP5	REC TwinPeak 5 Series
P) RECxxxAA Pure 2	REC Alpha Pure 2 Series
Q) RECxxxAA Pro L	REC Alpha Pro L Series
R) RECxxxAA Pro XL	REC Alpha Pro XL Series
S) RECxxxAA Pure-RX	REC Alpha Pure-RX Series

xxx in the type number replaces the power in Watt at STC
Refer to Annex 100 of Certificate 40046983 for certified watt classes.

This Confirmation of Test Results includes

Standard:

IEC 61215-2:2021, clause 4.20, Cyclic (dynamic) mechanical load test (MQT 20)

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IEC 61215-2:2021, clause 4.17, Hail test (MQT 17)

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IEC TS 62782:2016

Photovoltaic (PV) modules - Cyclic (dynamic) mechanical load testing

Manufacturer: REC Solar Pte Ltd
Standard: IEC 61215-2:2021, clause 4.20,
Cyclic (dynamic) mechanical load test (MQT 20)

Test conditions

Mechanical load cycles	: 1000
Maximum pressure	: ± 1000 Pa
Module Temperature	: 25 °C (± 2 °C)

Pass criteria

Power degradation	: < 5 %
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Summary of test results:

Maximum power degradation: Allowed : max. 5 %
Measured : see below table

Test Report No	Measured max power degradation
TRPVM-2023-40456-8	1.79 %
TRPVM-2023-40456-9	1.12 %
TRPVM-2023-40456-10	0.40 %
TRPVM-2023-40456-11	+0.50 %
TRPVM-2023-40456-12	+1.11 %

The measured degradation is below the allowed degradation.

Visual inspection: No major findings

The complete test results and the relevant bill of materials are given in Test Report No.: TRPVM-2023-40456-8, TRPVM-2023-40456-9, TRPVM-2023-40456-10, TRPVM-2023-40456-11, TRPVM-2023-40456-12

The overview of the already approved modules with the approved bill of materials is given in Annex 1 to 10018/2023-40456-8-12, dated 2023-07-18.

VDE Renewables GmbH

Jose Jojo

Arnd Roth

63755 Alzenau, 2023-07-18



IEC 61215-2:2016

Terrestrial photovoltaic (PV) modules – Design qualification and type approval
Photovoltaic (PV) modules – Hail test (MQT 17)

Manufacturer: REC Solar Pte Ltd.
Standard: IEC 61215-2:2016, clause 4.17, Hail test (MQT 17)

Test conditions:

Diameter of ice ball: 35 mm
Mass: 20.6 g
Test Velocity: 26.51 m/s

Pass criteria:

Power degradation: <5 %
Visual inspection: No findings

Summary of test results:

Maximum power degradation: Allowed : max. 5 %
Measured : see below table

Test Report No	Measured max power degradation
TRPVM-2023-40456-13	2.45 %
TRPVM-2023-40456-14	3.05 %
TRPVM-2023-40456-15	2.33 %
TRPVM-2023-40456-16	1.57 %
TRPVM-2023-40456-17	+0.20 %

The measured degradation is below the allowed degradation.

Visual inspection: No major findings

The complete test results and the relevant bill of materials are given in Test Report No. TRPVM-2023-40456-13, TRPVM-2023-40456-14, TRPVM-2023-40456-15, TRPVM-2023-40456-16, TRPVM-2023-40456-17.

The overview of the already approved modules with the approved bill of materials is given in Annex 1 to 10018/2023-40456-13-17, dated 2023-07-18.

VDE Renewables GmbH

Jose Jojo

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63755 Alzenau, 2023-07-18