

# REC TWINPEAK 25 MONO 72 SERIES

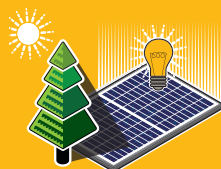
## PREMIUM SOLAR PANELS 100% MADE IN SINGAPORE

REC TwinPeak 25 Mono 72 Series solar panels feature an innovative design with high efficiency and an industry-leading lightweight, yet robust construction, enabling customers to get the most out of the installation area.

Combined with the product quality and reliability of a strong and established European brand, REC TwinPeak 25 Mono 72 Series panels are ideal for all types of commercial rooftop and utility installations worldwide.



**REDUCES BALANCE OF  
SYSTEM COSTS**



**IMPROVED PERFORMANCE  
IN SHADED CONDITIONS**

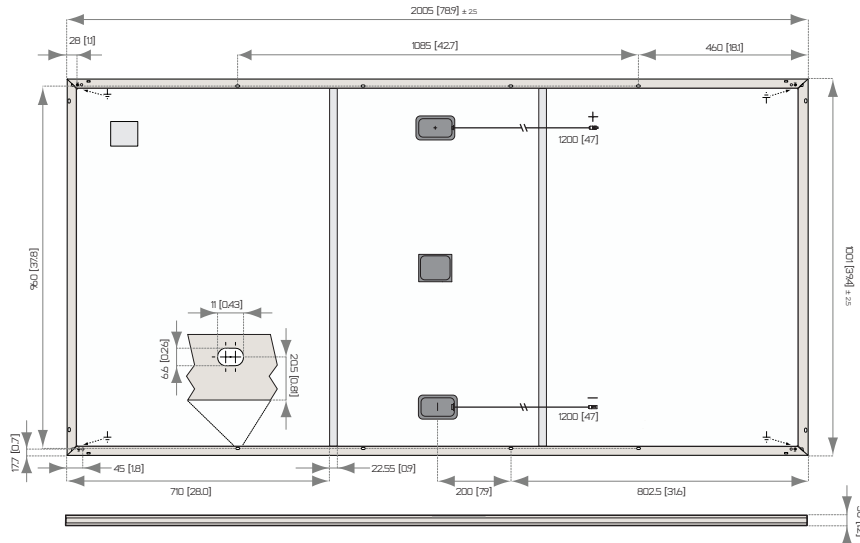


**INDUSTRY-LEADING  
LIGHTWEIGHT 72-CELL PANEL**



**100%  
PID FREE**

# REC TWINPEAK 25 MONO 72 SERIES



All measurements in mm [in]

ELECTRICAL DATA @ STC	Product code*: RECxxxTP2SM 72						
Nominal Power - $P_{MPP}$ (Wp)	370	375	380	385	390	395	400
Watt Class Sorting - (W)	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5
Nominal Power Voltage - $V_{MPP}$ (V)	39.8	40.1	40.3	40.5	40.7	40.9	41.1
Nominal Power Current - $I_{MPP}$ (A)	9.30	9.36	9.43	9.51	9.58	9.66	9.73
Open Circuit Voltage - $V_{OC}$ (V)	47.0	47.4	48.0	48.6	49.2	49.8	50.4
Short Circuit Current - $I_{SC}$ (A)	10.02	10.04	10.05	10.07	10.08	10.09	10.10
Panel Efficiency (%)	18.4	18.7	18.9	19.2	19.4	19.7	20.0

Values at standard test conditions STC (airmass AM 1.5, irradiance 1000 W/m<sup>2</sup>, cell temperature 77°F (25°C).  
At low irradiance of 200 W/m<sup>2</sup> (AM 1.5 and cell temperature 77°F (25°C)) at least 95% of the STC module efficiency will be achieved.  
\*xxx indicates the nominal power class ( $P_{MPP}$ ) at STC, and can be followed by the suffix XV for modules with a 1500 V maximum system rating.

ELECTRICAL DATA @ NMOT	Product code*: RECxxxTP2SM 72						
Nominal Power - $P_{MPP}$ (Wp)	276	280	283	287	290	295	298
Nominal Power Voltage - $V_{MPP}$ (V)	37.1	37.3	37.5	37.7	37.9	38.1	38.3
Nominal Power Current - $I_{MPP}$ (A)	7.44	7.49	7.54	7.60	7.66	7.73	7.78
Open Circuit Voltage - $V_{OC}$ (V)	43.7	44.1	44.7	45.3	45.8	46.4	46.9
Short Circuit Current - $I_{SC}$ (A)	8.02	8.03	8.04	8.06	8.06	8.07	8.08
Nominal cell operating temperature NOCT (800 W/m <sup>2</sup> , AM 1.5, windspeed 1 m/s, ambient temperature 68°F(20°C). *xxx indicates the nominal power class ( $P_{MPP}$ ) at STC, and can be followed by the suffix XV for modules with a 1500 V maximum system rating.							

## CERTIFICATION



UL 1703, Fire classification: Type 1 (1500 V XV); Type 2 (1000 V);  
IEC 61215, IEC 61730, IEC 62804 (PID), IEC 62716 (Ammonia),  
IEC 61701 (Salt Mist level 6),  
ISO 9001: 2015, ISO 14001: 2004, OHSAS 18001: 2007

## WARRANTY

20 year product warranty  
25 year linear power output warranty  
Max. performance degradation of 0.5% p.a. from 97.5% in year 1  
See warranty conditions for further details.

**20.0%** EFFICIENCY  
**20** YEAR PRODUCT WARRANTY  
**25** YEAR LINEAR POWER OUTPUT WARRANTY

## GENERAL DATA

Cell type: 144 half-cut monocrystalline PERC cells  
6 strings of 24 cells in series  
Glass: 0.13" (3.2 mm) solar glass with anti-reflection surface treatment  
Backsheet: Highly resistant polymeric construction  
Frame: Anodized aluminum  
Support bars: Anodized aluminum  
Junction box: 3-part, 3 bypass diodes, IP67 rated in accordance with IEC 62790  
Cable: 4 mm<sup>2</sup> solar cable, 1.2 m + 1.2 m in accordance with EN 50618  
Connectors: Tonglin TL-Cable01S-F (4 mm<sup>2</sup>) in accordance with IEC 62852, IP68 only when connected  
Origin: Made in Singapore

## MAXIMUM RATINGS

Operational temperature: -40...+185°F (-40...+85°C)  
Maximum system voltage: 1000V/1500V  
Design load(+): snow 75.2 lbs/ft<sup>2</sup> (3600 Pa)  
Maximum test load(+): 112.8 lbs/ft<sup>2</sup> (5400 Pa)  
Design load(-): wind 33.4 lbs/ft<sup>2</sup> (1600 Pa)  
Maximum test load(-): 50.1 lbs/ft<sup>2</sup> (2400 Pa)  
Max series fuse rating: 25 A  
Max reverse current: 25 A

+ Calculated using a safety factor of 1.5  
\* See installation manual for mounting instructions

## TEMPERATURE RATINGS

Nominal Module Operating Temperature: 44.6°C (±2°C)  
Temperature coefficient of  $P_{MPP}$ : -0.37%/°C  
Temperature coefficient of  $V_{OC}$ : -0.28%/°C  
Temperature coefficient of  $I_{SC}$ : 0.04%/°C  
\*The temperature coefficients stated are linear values

## MECHANICAL DATA

Dimensions: 78.9" x 39.4" x 1.2" (2005 x 1001 x 30 mm)  
Area: 21.6 ft<sup>2</sup> (2.01 m<sup>2</sup>)  
Weight: 48.5 lbs (22 kg)

Specifications subject to change without notice. Ref: PM-D5-07-23 Rev-B 07.19

Founded in Norway in 1996, REC is a leading vertically integrated solar energy company. Through integrated manufacturing from silicon to wafers, cells, high-quality panels and extending to solar solutions, REC provides the world with a reliable source of clean energy. REC's renowned product quality is supported by the lowest warranty claims rate in the industry. REC is a Bluestar Elkem company with headquarters in Norway and operational headquarters in Singapore. REC employs around 2,000 people worldwide, producing 1.5 GW of solar panels annually.

