

# REC TWINPEAK 35 MONO 72 SERIES

## PREMIUM SOLAR PANELS WITH SUPERIOR PERFORMANCE

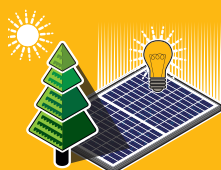
REC TwinPeak 35 Mono 72 Series\* solar panels feature an innovative design with the higher panel efficiency of monocrystalline cells, enabling customers to get the most out of the space used for the installation.

Combined with industry-leading product quality and the reliability of a strong and established European brand, REC TwinPeak 35 Mono 72 Series panels are ideal for all types of commercial rooftop and utility installations worldwide.

\*Product not available in Germany.



**REDUCES BALANCE OF  
SYSTEM COSTS**



**IMPROVED PERFORMANCE  
IN SHADED CONDITIONS**



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



**100%  
PID FREE**

# REC TWINPEAK 35 MONO 72 SERIES

**20.1%** 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: 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: Stäubli MC4-Evo 2 PV-KBT4-EVO-2/PV-KST4-EVO-2 (4 mm<sup>2</sup>) in accordance with IEC 62852, IP68 only when connected  
 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 ... +85°C  
 Maximum system voltage: 1000 V / 1500 V  
 Design load (+): snow 367 kg/m<sup>2</sup> (3600 Pa)\*  
 Maximum test load (+): 550 kg/m<sup>2</sup> (5400 Pa)\*  
 Design load (-): wind 163 kg/m<sup>2</sup> (1600 Pa)\*  
 Maximum test load (-): 244 kg/m<sup>2</sup> (2400 Pa)\*  
 Max series fuse rating: 25 A  
 Max reverse current: 25 A

\* Calculated using a safety factor of 1.5

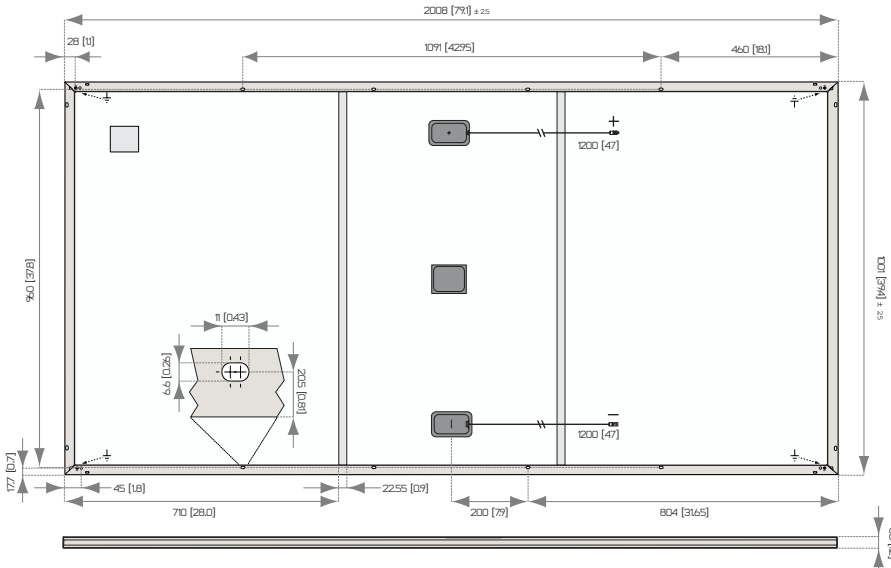
\* See installation manual for mounting instructions

## TEMPERATURE RATINGS\*

Nominal Module Operating Temperature: 44.6°C (±2°C)  
 Temperature coefficient of P<sub>MAX</sub>: -0.34 %/°C  
 Temperature coefficient of V<sub>OC</sub>: -0.26 %/°C  
 Temperature coefficient of I<sub>SC</sub>: 0.04 %/°C  
 \*The temperature coefficients stated are linear values

## MECHANICAL DATA

Dimensions: 2008 x 1001 x 30 mm  
 Area: 2.01 m<sup>2</sup>  
 Weight: 22.3 kg



Measurements in mm [in]

## ELECTRICAL DATA @ STC

Product code\*: RECxxxTP3SM 72

	380	385	390	395	400	405
Power Output - P <sub>MAX</sub> (Wp)	380	385	390	395	400	405
Watt Class Sorting - (W)	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5
Nominal Power Voltage - V <sub>MPP</sub> (V)	40.4	40.7	40.9	41.1	41.4	41.7
Nominal Power Current - I <sub>MPP</sub> (A)	9.41	9.47	9.54	9.60	9.67	9.72
Open Circuit Voltage - V <sub>OC</sub> (V)	46.9	47.2	47.6	47.9	48.2	48.6
Short Circuit Current - I <sub>SC</sub> (A)	10.30	10.33	10.35	10.38	10.42	10.44
Panel Efficiency (%)	18.9	19.2	19.4	19.7	19.9	20.1

Values at standard test conditions (STC: air mass AM1.5, irradiance 1000 W/m<sup>2</sup>, temperature 25°C), based on a production spread with a tolerance of P<sub>MAX</sub>, V<sub>OC</sub> & I<sub>SC</sub> ±3% within one watt class. At low irradiance of 200 W/m<sup>2</sup> at least 95% of the STC module efficiency will be achieved.

\*Where xxx indicates the nominal power class (P<sub>MAX</sub>) at STC indicated above, and can be followed by the suffix XV for 1500 V rated modules.

## ELECTRICAL DATA @ NMOT

Product code\*: RECxxxTP3SM 72

	283	287	291	294	298	302
Power Output - P <sub>MAX</sub> (Wp)	283	287	291	294	298	302
Nominal Power Voltage - V <sub>MPP</sub> (V)	37.6	37.9	38.1	38.3	38.5	38.8
Nominal Power Current - I <sub>MPP</sub> (A)	7.53	7.58	7.63	7.68	7.73	7.78
Open Circuit Voltage - V <sub>OC</sub> (V)	43.7	44.0	44.3	44.6	44.9	45.3
Short Circuit Current - I <sub>SC</sub> (A)	8.24	8.26	8.28	8.31	8.34	8.35

Nominal module operating temperature (NMOT: air mass AM1.5, irradiance 800 W/m<sup>2</sup>, temperature 20°C, windspeed 1 m/s).

\*Where xxx indicates the nominal power class (P<sub>MAX</sub>) at STC indicated above, and can be followed by the suffix XV for 1500 V rated modules.

## CERTIFICATIONS

IEC 61215:2016, IEC 61730:2016, UL 61730

IEC 62804

PID

IEC 61701

Salt Mist

IEC 62716

Ammonia Resistance

IEC 62782

Dynamic Mechanical Load

IEC 61215-2:2016

Hailstone (35mm)

ISO 14001:2004, ISO 9001:2015, OHSAS 18001:2007, IEC 62941



takeaway

take-away WEEE-compliant recycling scheme

## 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.

REC Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power in order to facilitate global energy transitions. Committed to quality and innovation, REC offers photovoltaic modules with leading high quality, backed by an exceptional low warranty claims rate of less than 100ppm. Founded in Norway in 1996, REC employs 2,000 people and has an annual solar panel capacity of 1.8 GW. With over 10 GW installed worldwide, REC is empowering more than 16 million people with clean solar energy. REC Group is a Bluestar Elkem company with headquarters in Norway, operational headquarters in Singapore, and regional bases in North America, Europe, and Asia-Pacific.



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Specifications subject to change without notice.

Ref: PV-DS-07-23 Rev -B 12.20