

SOLAR'S MOST TRUSTED

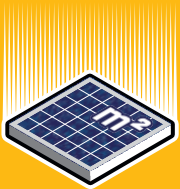


HIGH PERFORMANCE  
SOLAR PANELS

# rec Peak energy 72 SERIES

REC Peak Energy 72 Series panels are the perfect choice for building solar systems that combine long lasting product quality with reliable power output.

REC combines leading standards of design and manufacturing to produce high-performance solar panels with uncompromising quality.



**MORE POWER  
PER M<sup>2</sup>**



**ROBUST AND  
DURABLE DESIGN**



**100%  
PID FREE**



**REDUCED BALANCE OF  
SYSTEM COSTS**

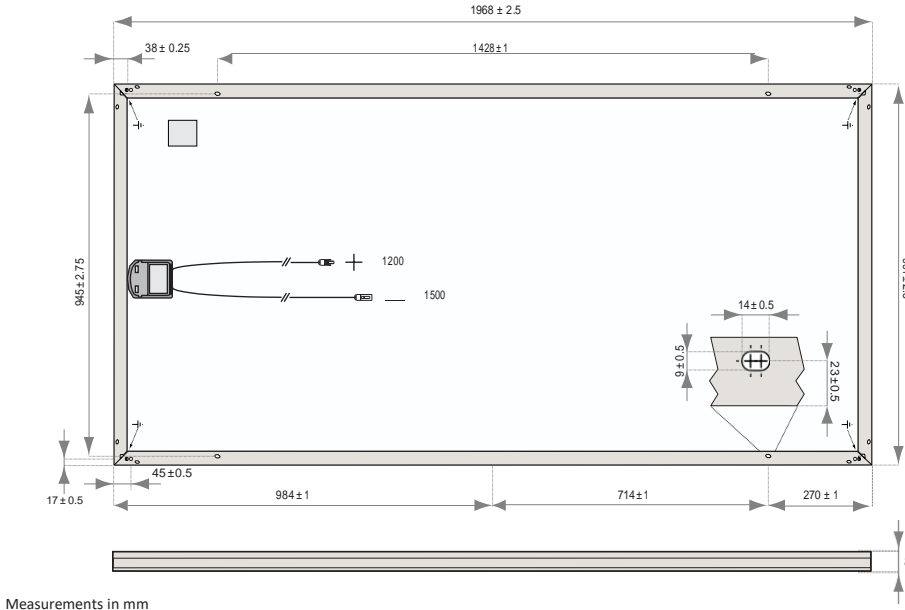


# REC PEAK ENERGY 72 SERIES

16.7% EFFICIENCY

10 YEAR PRODUCT WARRANTY

25 YEAR LINEAR POWER OUTPUT WARRANTY



Measurements in mm

## GENERAL DATA

Cell type:	72 multicrystalline cells 3 strings of 24 cells in series
Glass:	4 mm solar glass with anti-reflection surface treatment
Backsheet:	Highly resistant polymeric construction
Frame:	Anodized aluminum
Junction box:	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-Cable01 (4 mm <sup>2</sup> ) in accordance with IEC 62852, IP67 only when connected
Origin:	Made in Singapore

## ELECTRICAL DATA @ STC

Product code: RECxxxPE72

	300	305	310	315	320	325
Nominal Power- $P_{MPP}$ (Wp)	300	305	310	315	320	325
Watt Class Sorting (W)	-0/+5	-0/+5	-0/+5	-0/+5	-0/+5	-0/+5
Nominal Power Voltage- $V_{MPP}$ (V)	36.5	36.9	37.2	37.5	37.9	38.5
Nominal Power Current- $I_{MPP}$ (A)	8.22	8.27	8.34	8.40	8.45	8.46
Open Circuit Voltage- $V_{OC}$ (V)	44.9	45.2	45.5	45.8	46.1	46.4
Short Circuit Current- $I_{SC}$ (A)	8.76	8.82	8.88	8.93	8.99	9.05
Panel Efficiency (%)	15.4	15.6	15.9	16.2	16.4	16.7

Values at standard test conditions (STC: air mass AM 1.5, irradiance 1000 W/m<sup>2</sup>, temperature 25°C), based on a production spread with a tolerance of  $V_{OC}$  &  $I_{SC}$  ±3% within one watt class. At low irradiance of 200 W/m<sup>2</sup> at least 95.5% of the STC module efficiency will be achieved.  
\*Where xxx indicates the nominal power class ( $P_{MPP}$ ) at STC indicated above.

## 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

\* Safety factor 1.5

## ELECTRICAL DATA @ NMOT

Product code: RECxxxPE72

	217	221	225	229	232	236
Nominal Power- $P_{MPP}$ (Wp)	217	221	225	229	232	236
Nominal Power Voltage- $V_{MPP}$ (V)	29.9	30.1	30.4	30.6	30.8	31.0
Nominal Power Current- $I_{MPP}$ (A)	7.27	7.34	7.41	7.48	7.54	7.61
Open Circuit Voltage- $V_{OC}$ (V)	36.9	37.2	37.4	37.6	37.9	38.1
Short Circuit Current- $I_{SC}$ (A)	7.67	7.72	7.77	7.83	7.88	7.94

Nominal module operating temperature (NMOT: air mass AM 1.5, irradiance 800 W/m<sup>2</sup>, temperature 20°C, windspeed 1 m/s)  
\*Where xxx indicates the nominal power class ( $P_{MPP}$ ) at STC indicated above.

## TEMPERATURE RATINGS\*

Nominal Module Operating Temperature:	46.6°C (±2°C)
Temperature coefficient of $P_{MPP}$	-0.40 %/°C
Temperature coefficient of $V_{OC}$	-0.27 %/°C
Temperature coefficient of $I_{SC}$	0.013 %/°C

\*The temperature coefficients stated are linear values

## CERTIFICATIONS



## WARRANTY

10 year product warranty  
25 year linear power output warranty  
(max. degradation in performance of 0.7% p.a.)  
See warranty conditions for further details.

## MECHANICAL DATA

Dimensions:	1968 x 991 x 45 mm
Area:	1.95 m <sup>2</sup>
Weight:	27 kg

takeaway take-e-way WEEE-compliant recycling scheme

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 more than 2,000 people worldwide, producing 1.4 GW of solar panels annually.



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