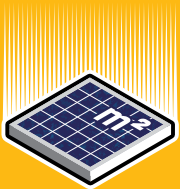


## HIGH PERFORMANCE SOLAR PANELS

# 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.

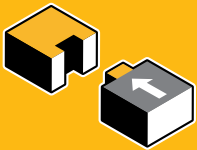
REC combines leading standards of design and manufacturing to produce high-performance solar panels with uncompromising quality.



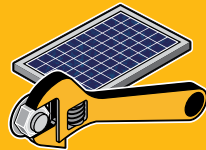
**MORE POWER  
PER M<sup>2</sup>**



**ROBUST AND  
DURABLE DESIGN**



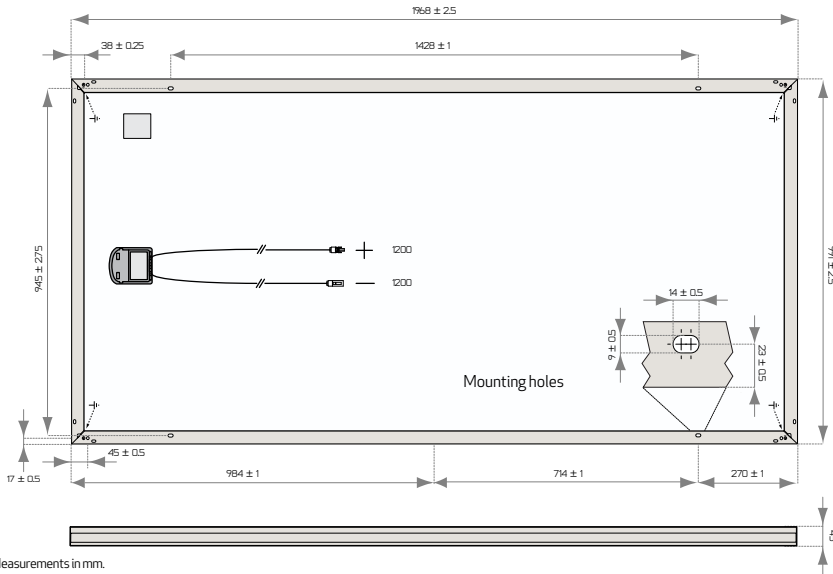
**ENERGY PAYBACK  
TIME OF ONE YEAR**



**REDUCED BALANCE OF  
SYSTEM COSTS**



# REC PEAK ENERGY 72 SERIES



Measurements in mm.

ELECTRICAL DATA @ STC	REC295PE72	REC300PE72	REC305PE72	REC310PE72	REC315PE72
Nominal Power - $P_{MPP}$ (Wp)	295	300	305	310	315
Watt Class Sorting - (W)	0/+5	0/+5	0/+5	0/+5	0/+5
Nominal Power Voltage - $V_{MPP}$ (V)	36.1	36.4	36.6	36.7	36.8
Nominal Power Current - $I_{MPP}$ (A)	8.23	8.33	8.42	8.53	8.62
Open Circuit Voltage - $V_{OC}$ (V)	44.5	44.9	45.1	45.3	45.5
Short Circuit Current - $I_{SC}$ (A)	8.80	8.86	8.95	9.02	9.09
Panel Efficiency (%)	15.1	15.4	15.6	15.9	16.2

Analysed data demonstrates that 99.7% of modules produced have current and voltage tolerance of  $\pm 3\%$  from nominal values. Values at standard test conditions STC (airmass AM1.5, irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C). At low irradiance of 200 W/m<sup>2</sup> (AM1.5 and cell temperature 25°C) at least 95.5% of the STC module efficiency will be achieved.

ELECTRICAL DATA @ NOCT	REC295PE72	REC300PE72	REC305PE72	REC310PE72	REC315PE72
Nominal Power - $P_{MPP}$ (Wp)	214	217	221	225	229
Nominal Power Voltage - $V_{MPP}$ (V)	29.7	29.9	30.1	30.4	30.6
Nominal Power Current - $I_{MPP}$ (A)	7.21	7.27	7.34	7.41	7.48
Open Circuit Voltage - $V_{OC}$ (V)	36.7	36.9	37.2	37.4	37.6
Short Circuit Current - $I_{SC}$ (A)	7.61	7.67	7.72	7.77	7.83

Nominal operating cell temperature NOCT (800 W/m<sup>2</sup>, AM1.5, windspeed 1 m/s, ambient temperature 20°C).

## CERTIFICATIONS



Certified according to UL 1703 and IEC 61215 & IEC 61730

**take way**  
for an easy way  
take-e-way WEEE Compliant  
Recycling scheme

## WARRANTY

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

16.2% EFFICIENCY

10 YEAR PRODUCT WARRANTY

25 YEAR LINEAR POWER OUTPUT WARRANTY

## TEMPERATURE RATINGS

Nominal operating cell temperature (NOCT)	46.6°C ( $\pm 2^\circ\text{C}$ )
Temperature coefficient of $P_{MPP}$	-0.40 %/°C
Temperature coefficient of $V_{OC}$	-0.27 %/°C
Temperature coefficient of $I_{SC}$	0.013 %/°C

## GENERAL DATA

Cell type:	72 multicrystalline 3 strings of 24 cells
Glass:	4mm solar glass with anti-reflection surface treatment
Back sheet:	Double layer highly resistant polyester
Frame:	Anodized aluminum (silver)
Junction box:	IP67 rated 3 bypass diodes 4 mm <sup>2</sup> solar cable, 1.2 m + 1.2 m
Connectors:	MC4 connectable (4 mm <sup>2</sup> )

## MAXIMUM RATINGS

Operational temperature:	-40 ... +85°C
Maximum system voltage:	1000 V
Maximum snow load:	367 kg/m <sup>2</sup> (3600 Pa)
Maximum wind load:	163 kg/m <sup>2</sup> (1600 Pa)
Max series fuse rating:	20 A
Max reverse current:	20 A

## MECHANICAL DATA

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

**Note!** Specifications subject to change without notice.

REC is the largest European brand of solar panels, with more than 15 million high-quality panels produced at the end of 2014. With integrated manufacturing from polysilicon to wafers, cells, panels and turnkey solar solutions, REC strives to help meet the world's growing energy needs. In partnership with a sales channel of distributors, installers, and EPCs, REC panels are installed globally. Founded in 1996, REC is a Bluestar Elkem company with headquarters in Norway and operational headquarters in Singapore. REC's 1,800 employees worldwide generated revenues of USD 680 million in 2014.



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