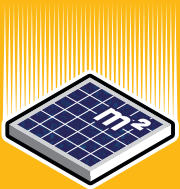


## HIGH PERFORMANCE SOLAR MODULES

# REC PEAK ENERGY SERIES

REC Peak Energy Series modules are the perfect choice for building solar systems that combine long lasting product quality with reliable power output. REC combines high quality design and manufacturing standards to produce high-performance solar modules with uncompromising quality.



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



**ROBUST AND  
DURABLE DESIGN**



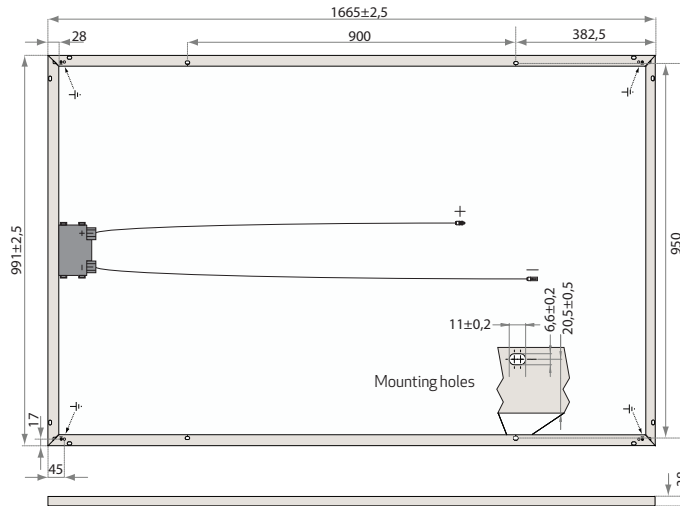
**ENERGY PAYBACK  
TIME OF ONE YEAR**



**OPTIMIZED FOR ALL  
SUNLIGHT CONDITIONS**



# REC PEAK ENERGY SERIES



\*Diagram indicates Hosiden junction box (Design 2), position and dimensions are the same for modules supplied with Huber & Suhner junction box (Design 1).

## ELECTRICAL DATA @ STC

	REC235PE	REC240PE	REC245PE	REC250PE	REC255PE	REC260PE
Nominal Power - $P_{MPP}$ (Wp)	235	240	245	250	255	260
Watt Class Sorting - (W)	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5
Nominal Power Voltage - $V_{MPP}$ (V)	29.5	29.7	30.1	30.2	30.5	30.7
Nominal Power Current - $I_{MPP}$ (A)	8.06	8.17	8.23	8.30	8.42	8.50
Open Circuit Voltage - $V_{OC}$ (V)	36.6	36.8	37.1	37.4	37.6	37.8
Short Circuit Current - $I_{SC}$ (A)	8.66	8.75	8.80	8.86	8.95	9.01
Module Efficiency (%)	14.2	14.5	14.8	15.1	15.5	15.8

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 AM 1.5, irradiance 1000 W/m<sup>2</sup>, cell temperature 25°C). At low irradiance of 200 W/m<sup>2</sup> (AM 1.5 and cell temperature 25°C) at least 97% of the STC module efficiency will be achieved.

## ELECTRICAL DATA @ NOCT

	REC235PE	REC240PE	REC245PE	REC250PE	REC255PE	REC260PE
Nominal Power - $P_{MPP}$ (Wp)	179	183	187	189	193	197
Nominal Power Voltage - $V_{MPP}$ (V)	27.5	27.7	28.1	28.3	28.5	29.0
Nominal Power Current - $I_{MPP}$ (A)	6.51	6.58	6.64	6.68	6.77	6.81
Open Circuit Voltage - $V_{OC}$ (V)	34.2	34.4	34.7	35.0	35.3	35.7
Short Circuit Current - $I_{SC}$ (A)	6.96	7.03	7.08	7.12	7.21	7.24

Nominal cell operating temperature NOCT (800 W/m<sup>2</sup>, AM 1.5, windspeed 1 m/s, ambient temperature 20°C).

## CERTIFICATION



IEC 61215 & IEC 61730, IEC 62716 (ammonia resistance) & IEC 61701 (salt mist - severity level 6).



Member of PV Cycle

## WARRANTY

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

15.8% EFFICIENCY

10 YEAR PRODUCT WARRANTY

25 YEAR LINEAR POWER OUTPUT WARRANTY

## TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45.7°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 $I_{SC}$	0.024 %/°C

## GENERAL DATA

Cell Type:	60 REC PE multi-crystalline 3 strings of 20 cells
Glass:	3.2 mm solar glass with anti-reflection surface treatment
Back Sheet:	Double layer highly resistant polyester
Frame:	Anodized aluminium (silver)
Junction Box Design 1:	Huber & Suhner: IP67 rated 3 bypass diodes 4 mm <sup>2</sup> solar cable, 0.9 m + 1.2 m Radox 4 mm <sup>2</sup> , twist lock connectors
Junction Box Design 2:	Hosiden: IP67 rated 4 bypass diodes 4 mm <sup>2</sup> solar cable, 0.9 m + 1.2 m Hosiden 4 mm <sup>2</sup> connectors, MC4 connectable

## MAXIMUM RATINGS

Operational Temperature:	-40 ... +80°C
Maximum System Voltage:	1000 V
Maximum Snow Load:	550 kg/m <sup>2</sup> (5400 Pa)
Maximum Wind Load:	244 kg/m <sup>2</sup> (2400 Pa)
Max Series Fuse Rating:	25 A
Max Reverse Current:	25 A

## MECHANICAL DATA

Dimensions:	1665 x 991 x 38 mm
Area:	1.65 m <sup>2</sup>
Weight:	18 kg

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

REC is a leading global provider of solar electricity solutions. With nearly two decades of expertise, we offer sustainable, high-performing products, services and investment opportunities for the solar and electronics industries. Together with our partners, we create value by providing solutions that better meet the world's growing electricity needs. Our 2,400 employees worldwide generated revenues of more than NOK 13 billion in 2011, approximately EUR 1.7 billion. To see more of what REC can offer, visit [www.recgroup.com](http://www.recgroup.com).



[www.recgroup.com](http://www.recgroup.com)