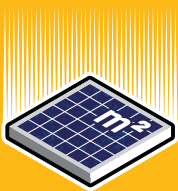


HIGH PERFORMANCE SOLAR MODULES

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 M²**



**ROBUST AND
DURABLE DESIGN**

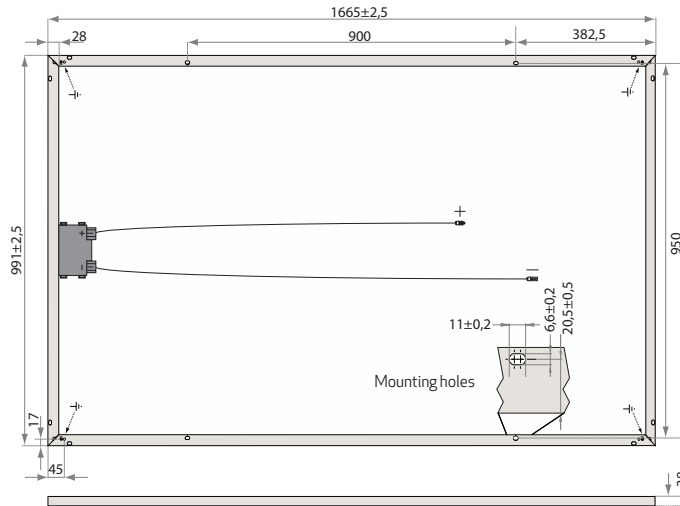


**ENERGY PAYBACK
TIME OF ONE YEAR**



**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

	REC230PE	REC235PE	REC240PE	REC245PE	REC250PE	REC255PE
Nominal Power - P_{MPP} (Wp)	230	235	240	245	250	255
Watt Class Sorting - (W)	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5
Nominal Power Voltage - V_{MPP} (V)	29.2	29.5	29.7	30.1	30.2	30.5
Nominal Power Current - I_{MPP} (A)	7.98	8.06	8.17	8.23	8.30	8.42
Open Circuit Voltage - V_{OC} (V)	36.4	36.6	36.8	37.1	37.4	37.6
Short Circuit Current - I_{SC} (A)	8.59	8.66	8.75	8.80	8.86	8.95
Module Efficiency (%)	13.9	14.2	14.5	14.8	15.1	15.5

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/m², cell temperature 25°C). At low irradiance of 200 W/m² (AM1.5 and cell temperature 25°C) at least 97% of the STC module efficiency will be achieved.

ELECTRICAL DATA @ NOCT

	REC230PE	REC235PE	REC240PE	REC245PE	REC250PE	REC255PE
Nominal Power - P_{MPP} (Wp)	175	179	183	187	189	193
Nominal Power Voltage - V_{MPP} (V)	27.2	27.5	27.7	28.1	28.3	28.5
Nominal Power Current - I_{MPP} (A)	6.44	6.51	6.58	6.64	6.68	6.77
Open Circuit Voltage - V_{OC} (V)	34.0	34.2	34.4	34.7	35.0	35.3
Short Circuit Current - I_{SC} (A)	6.91	6.96	7.03	7.08	7.12	7.21

Nominal cell operating temperature NOCT (800 W/m², AM1.5, 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.)

15.5% 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 ² solar cable, 0.9 m + 1.2 m Radox 4 mm ² , twist lock connectors
Junction Box Design 2:	Hosiden: IP67 rated 4 bypass diodes 4 mm ² solar cable, 0.9 m + 1.2 m Hosiden 4 mm ² connectors, MC4 connectable

MAXIMUM RATINGS

Operational Temperature:	-40 ... +80°C
Maximum System Voltage:	1000 V
Maximum Snow Load:	550 kg/m ² (5400 Pa)
Maximum Wind Load:	244 kg/m ² (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 ²
Weight:	18 kg

Note! Specifications subject to change without notice.

REC is a leading vertically integrated player in the solar energy industry. Ranked among the world's largest producers of polysilicon and wafers for solar applications and a rapidly growing manufacturer of solar cells and modules, REC also engages in project development activities in selected PV segments. Founded in Norway in 1996, REC is an international solar company employing about 3,200 people worldwide with revenues of about EUR 1.7 billion in 2011. Visit www.recgroup.com to learn more about REC.



www.recgroup.com