

HIGH PERFORMANCE SOLAR MODULES

REC PEAK ENERGY SERIES

REC Peak Energy (PE)-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**

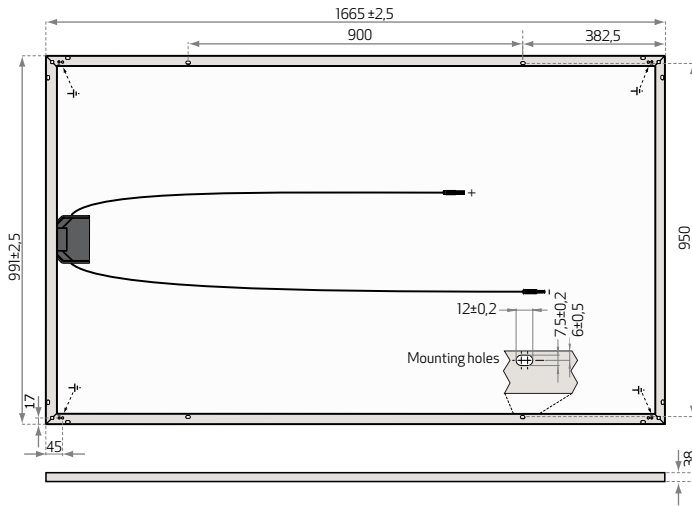


**ENERGY PAYBACK
TIME OF ONE YEAR**



**OPTIMIZED FOR ALL
SUNLIGHT CONDITIONS**

REC PEAK ENERGY SERIES



14.8 EFFICIENCY

63 MONTHS WORKMANSHIP WARRANTY

25 YEAR POWER OUTPUT WARRANTY

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	47.9 °C (±2°C)
Temperature Coefficient of P_{MPP}	-0.43 %/°C
Temperature Coefficient of V_{OC}	-0.33 %/°C
Temperature Coefficient of I_{SC}	0.074 %/°C

ELECTRICAL DATA @ STC

	REC220PE	REC225PE	REC230PE	REC235PE	REC240PE	REC245PE
Maximum Power - P_{MAX} (Wp)	220	225	230	235	240	245
Watt Class Tolerance - P_{TOL} (W)	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5
Maximum Power Voltage - V_{MPP} (V)	28.6	28.9	29.2	29.6	29.9	30.2
Maximum Power Current - I_{MPP} (A)	7.7	7.8	7.9	8.0	8.0	8.1
Open Circuit Voltage - V_{OC} (V)	35.9	36.2	36.5	36.7	37.0	37.2
Short Circuit Current - I_{SC} (A)	8.3	8.3	8.4	8.5	8.6	8.7
Module Efficiency (%)	13.3	13.6	13.9	14.2	14.5	14.8

Values at standard test conditions STC (air mass AM1.5, irradiance 1000 W/m², cell temperature 25 °C)

ELECTRICAL DATA @ NOCT

	REC220PE	REC225PE	REC230PE	REC235PE	REC240PE	REC245PE
Maximum Power - P_{MAX} (Wp)	164	167	170	173	176	179
Maximum Power Voltage - V_{MPP} (V)	26.3	26.6	26.8	27.1	27.3	27.6
Maximum Power Current - I_{MPP} (A)	6.2	6.3	6.3	6.4	6.4	6.5
Open Circuit Voltage - V_{OC} (V)	33.2	33.4	33.6	33.8	34.1	34.3
Short Circuit Current - I_{SC} (A)	6.7	6.8	6.8	6.9	7.0	7.0

Normal operating cell temperature NOCT (800 W/m², AM1.5, windspeed 1 m/s, ambient temperature 20 °C)

CERTIFICATION



Certified according to, IEC 61215 and, IEC 61730

WARRANTY

10 years limited warranty of 90% power output
25 years limited warranty of 80% power output
63 months workmanship warranty

GENERAL DATA

Cell Type	60 REC PE multi-crystalline cells 3 strings of 20 cells - 3 by-pass diodes
Glass	Solar glass with antireflection surface treatment by Sunarc Technology
Back Sheet	Double layer highly resistant polyester
Frame	Anodized aluminium
Cable	Radox 4mm ² solar cable, 0.90m +1.20m
Connectors	Radox 4mm ² twist locking connector

MAXIMUM RATINGS

Operational Temperature	-40 ... +80 °C
Maximum System Voltage	1000V
Maximum Load	551 kg/m ² (5400 Pa)
Maximum Wind Speed	197 km/h (safety factor 3)
Maximum Series Fuse Rating	15A
Maximum Reverse Current	15A

MECHANICAL DATA

Dimensions	1665 x 991 x 38 mm
Area	1.65 m ²
Weight	18kg

Note! Specifications subject to change without notice.

REC is a leading vertically integrated player in the solar energy industry. REC is among the world's largest producers of polysilicon and wafers for solar applications, and a rapidly growing manufacturer of solar cells and modules. REC is also engaged in project development activities in selected PV segments. Founded in Norway, REC is an international solar company, employing more than 4,100 people worldwide. REC had revenues in excess of NOK 9 billion in 2009, approximately EUR 1 billion and approximately USD 1.4 billion.



www.recgroup.com