

HIGH PERFORMANCE SOLAR MODULES

REC PEAK ENERGY (BLK) SERIES

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



**MORE POWER
PER M²**



**ROBUST AND
DURABLE DESIGN**

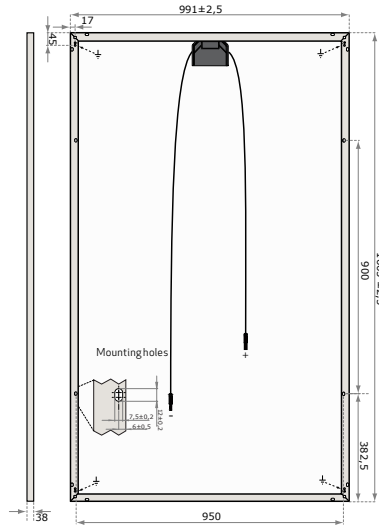


**ENERGY PAYBACK
TIME OF ONE YEAR**

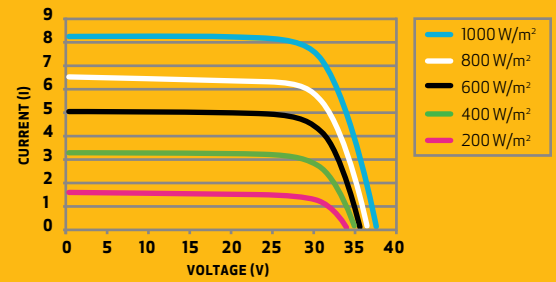


**OPTIMIZED FOR ALL
SUNLIGHT CONDITIONS**

REC PEAK ENERGY (BLK) SERIES



IV CHARACTERISTICS 235W MODULE



14.2 EFFICIENCY
63 MONTHS WORKMANSHIP WARRANTY
25 YEAR POWER OUTPUT WARRANTY

ELECTRICAL DATA @ STC

	REC215PE (BLK)	REC220PE (BLK)	REC225PE (BLK)	REC230PE (BLK)	REC235PE (BLK)	REC240PE (BLK)
Peak Power Watts - P_{MAX} (Wp)	215	220	225	230	235	240
Watt Class Tolerance - P_{TOL} (W)	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5
Watt Class Tolerance - P_{TOL} (%)	0/+2	0/+2	0/+2	0/+2	0/+2	0/+2
Maximum Power Voltage - V_{MPP} (V)	28.3	28.7	29.1	29.4	29.8	30.4
Maximum Power Current - I_{MPP} (A)	7.6	7.7	7.7	7.8	7.9	7.9
Open Circuit Voltage - V_{OC} (V)	36.3	36.6	36.8	37.1	37.4	37.7
Short Circuit Current - I_{SC} (A)	8.1	8.2	8.2	8.3	8.3	8.4
Module Efficiency (%)	13.0	13.3	13.6	13.9	14.2	14.5

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000 W/m², Cell temperature 25 °C)

TEMPERATURE RATINGS (235 W RATED MODULE)

Nominal Operating Cell Temperature (NOCT)	47.9 °C (±2 °C)
Temperature Coefficient of P_{MPP}	-0.46 %/°C
Temperature Coefficient of V_{OC}	-0.32 %/°C
Temperature Coefficient of I_{SC}	0.011 %/°C

CERTIFICATION



Certified according to UL1703, IEC 61215 and, IEC 61730

MECHANICAL DATA

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

GENERAL DATA

Cell Type	60 REC PE multi-crystalline cells 3 strings of 20 cells - 3 by-pass diodes
Glass	High-transparency solar glass with antireflection surface treatment by Sunarc Technology
Back sheet	Double layer high performance polyester
Frame	Black anodized aluminium
Cable	Radox 4mm ² solar cables, 0.90m +1.20m
Connectors	Radox 4mm ² twist locking connector

WARRANTY

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

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)
Max Series Fuse Rating	15A
Max Reverse Current	15A

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 4,000 people worldwide. REC had revenues in excess of NOK 9 billion in 2009.

