

## HIGH PERFORMANCE SOLAR MODULES

# REC PEAK ENERGY (BLK) 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.



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



**ROBUST AND  
DURABLE DESIGN**

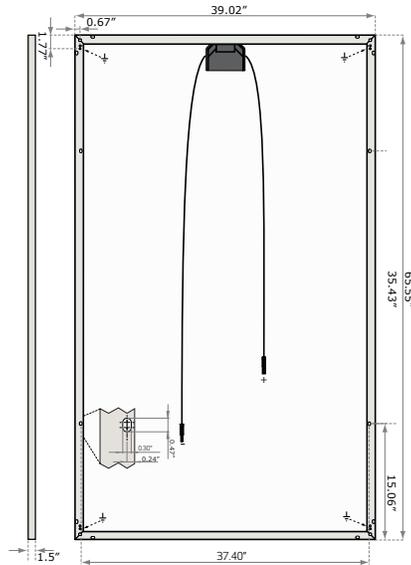
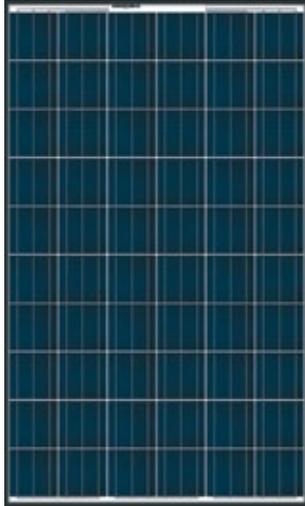


**ENERGY PAYBACK  
TIME OF ONE YEAR**

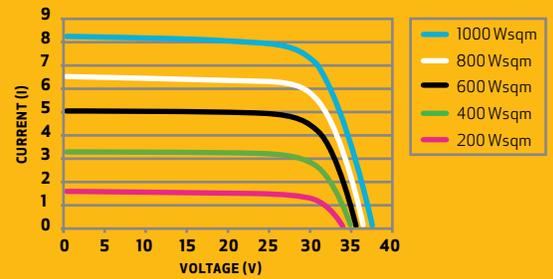


**US-PRODUCED  
SILICON**

# 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/m<sup>2</sup>, Cell temperature 25 °C)

### 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 <sup>2</sup> solar cables 35 in +47 in
Connector	Radox 4mm <sup>2</sup> 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	600V
Design Load (UL1703)	75.2 lbs/ft <sup>2</sup> (3600Pa)
Maximum Load (IEC 61215)	551 kg/m <sup>2</sup> (5400 Pa)
Maximum Wind Speed	122 mph (safety factor 3)
Max Series Fuse Rating	15A
Max Reverse Current	15A

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

### 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	65.55 x 39.02 x 1.5 in
Area	17.76 ft <sup>2</sup>
Weight	39.6 lbs

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, approximately EUR 1 billion and approximately USD 1.4 billion.

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



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