

## HIGH PERFORMANCE SOLAR MODULES

# REC PEAK ENERGY INTEGRATED

The REC Peak Energy Integrated Solution is the perfect choice for building in-roof solar systems that combine the reliable power output of REC solar panels with the proven Solrif installation system. The solution is of uncompromising quality, weatherproof and aesthetic.



**EASY  
TO INSTALL**



**ROBUST AND  
DURABLE DESIGN**



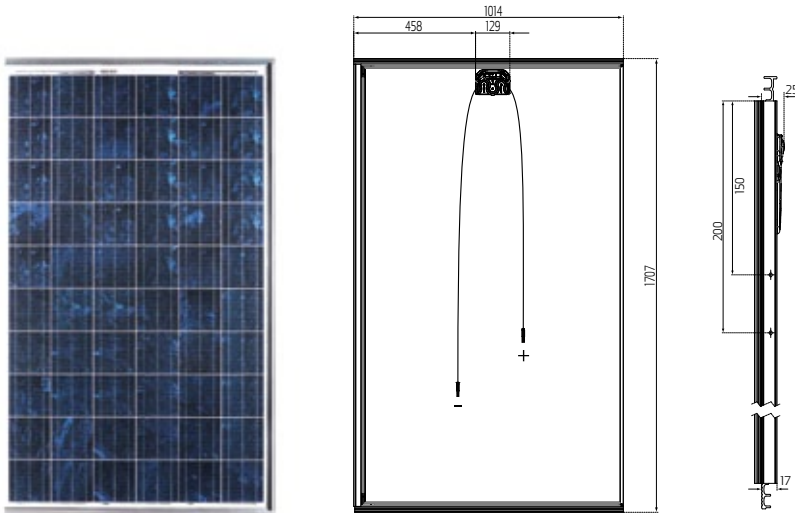
**INSTALLATION SYSTEM FOR  
BUILDING INTEGRATION**



**OPTIMIZED FOR ALL  
SUNLIGHT CONDITIONS**



# REC PEAK ENERGY INTEGRATED



**14.8** EFFICIENCY  
**120** 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

### REC220PEI REC225PEI REC230PEI REC235PEI REC240PEI REC245PEI

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/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	Solar glass with antireflection surface treatment by Sunarc Technology
Back Sheet	Double layer highly resistant polyester
Frame	Solrif
Cable	Radox 4mm <sup>2</sup> solar cable, 0.90m +1.20m
Connectors	Radox 4mm <sup>2</sup> twist locking connector

## ELECTRICAL DATA @ NOCT

### REC220PEI REC225PEI REC230PEI REC235PEI REC240PEI REC245PEI

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/m<sup>2</sup>, AM1.5, windspeed 1 m/s, ambient temperature 20 °C)

## MAXIMUM RATINGS

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

## 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  
 120 months workmanship warranty

## MECHANICAL DATA

Outer dimensions	1707 x 1014 x 25 mm
Laying dimensions	1690 x 984 x 34 mm
Area	1.75 m <sup>2</sup>
Weight	21.6 kg

**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.



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