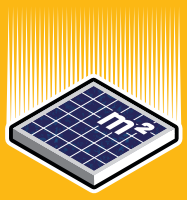
REC

HIGH PERFORMANCE SOLAR MODULES

REC PEAK ENERGY ECO SERIES

REC Peak Energy Eco modules use lead-free soldering to meet the needs of eco-conscious consumers while offering the same high performance, reliability and quality of other REC products. Safe and sustainable throughout the lifecycle, REC modules also have the lightest carbon footprint for multicrystaline.

ENVIRONMENTALLY FRIENDLY THROUGHOUT THE LIFECYCLE



MORE POWER PER M²

ENERGY PAYBACK TIME OF ONE YEAR

OPTIMIZED FOR ALL SUNLIGHT CONDITIONS

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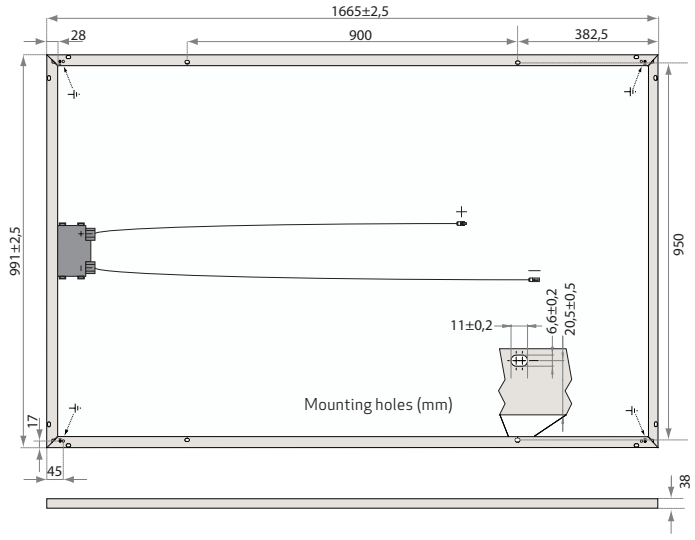

15.5% EFFICIENCY

25 YEAR LINEAR POWER OUTPUT WARRANTY

21 GRAM CO_2-EQ/KWH CARBON FOOTPRINT

TEMPERATURE RATINGS*

Nominal Operating Cell Temperature (NOCT)	45.7°C (±2°C)
Temperature Coefficient of P_{MPP}	-0.46 %/°C
Temperature Coefficient of V_{OC}	-0.35 %/°C
Temperature Coefficient of I_{SC}	0.048 %/°C

ELECTRICAL DATA @ STC

	REC235PE ECO	REC240PE ECO	REC245PE ECO	REC250PE ECO	REC255PE ECO
Nominal Power - P_{MPP} (Wp)	235	240	245	250	255
Watt Class Sorting - (W)	0/+5	0/+5	0/+5	0/+5	0/+5
Nominal Power Voltage - V_{MPP} (V)	29.5	29.7	30.1	30.2	30.5
Nominal Power Current - I_{MPP} (A)	8.06	8.17	8.23	8.30	8.42
Open Circuit Voltage - V_{OC} (V)	36.6	36.8	37.1	37.4	37.6
Short Circuit Current - I_{SC} (A)	8.66	8.75	8.80	8.86	8.95
Module Efficiency (%)	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 ±3% from nominal values.
Values at standard test conditions STC (airmass AM 1.5, irradiance 1000 W/m², cell temperature 25°C).
At low irradiance of 200 W/m² (AM 1.5 and cell temperature 25°C) at least 97% of the STC module efficiency will be achieved.

GENERAL DATA

Cell Type	60 REC PE multi-crystalline cells 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
Solder	Lead free ribbon, cross connector and solder
Junction box	IP67, 4 by-pass diodes 4mm² solar cable, 0.90 +1.20 m Hosiden 4mm² connectors, MC4 connectable

ELECTRICAL DATA @ NOCT

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

Nominal cell operating temperature NOCT (800 W/m², AM 1.5, windspeed 1 m/s, ambient temperature 20°C).

MAXIMUM RATINGS

Operational Temperature	-40 ... +80°C
Maximum System Voltage	1000 V
Maximum Snow Load	550 kg/m² (5400 Pa)
Maximum Wind Load	244 kg/m² (2400 Pa)
Max Series Fuse Rating	25A
Max Reverse Current	25A

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. degression in performance of 0.7% p.a.).

MECHANICAL DATA

Dimensions	1665 x 991 x 38 mm
Area	1.65 m²
Weight	18 kg

Note! Specifications subject to change without notice.

For more information on sustainability at REC see:
www.recgroup.com/sustainability

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REC is a leading global provider of solar electricity solutions. With nearly two decades of expertise, we offer sustainable, high-performing products, services and investment opportunities for the solar and electronics industries. Together with our partners, we create value by providing solutions that better meet the world's growing electricity needs. Our 2,400 employees worldwide generated revenues of more than NOK 13 billion in 2011, approximately EUR 1.7 billion or USD 2.4 billion. To see more of what REC can offer, visit www.recgroup.com

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