



Conergy EcoPro 220P–245P

Conergy EcoPro solar modules, equipped with 60 efficient cells and a sturdy, durable frame, weigh 18 kg and are truly lightweight. Their development in accordance with the highest German quality standards and the use of high-quality components make the Conergy EcoPro solar modules the ideal solution for all commercial projects and free-field installations.



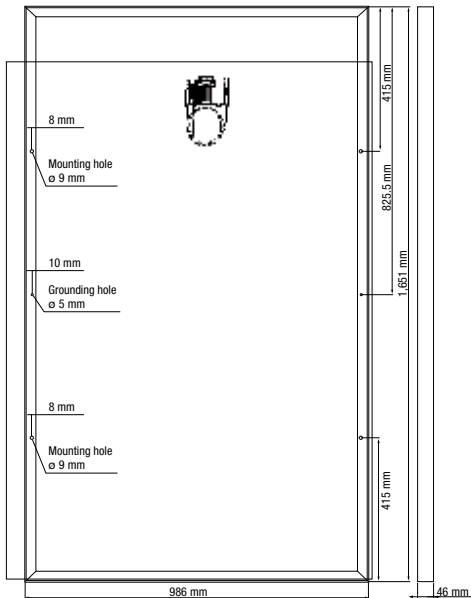
Benefits for the installer and the system operator

- | Different performance classes up to 245 Wp
- | Attractive price-performance ratio
- | Quality thanks to Conergy engineering and production process in Europe
- | Frost-proof, cavity-free frame
- | Rear ventilated, sealed and soldered junction box
- | Minimal cell loading thanks to 3 busbar design
- | Easy to handle on the roof thanks to weight <20 kg



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Module dimensions (L × W × H): ¹	1,651 × 986 × 46 mm
Cell dimensions:	156 × 156 mm
No. of cells:	60
Cell type:	Polycrystalline cell
NOCT: ²	46° C ± 2° C
Maximum permissible load:	5,400 Pa ³
Front cover type:	Micro-structured solar glass
Cable:	2 × 1,000 mm length, 4 mm ² cross-section Radox solar cable
Plug type:	Huber + Suhner: plug connector with integrated twist lock
Module weight: ⁴	18.8 kg
Certification:	IEC/EN 61215 Ed. 2 and IEC/EN 61730, ISO 9001:2008, ISO 14001:2004, MCS
Product warranty: ⁵	10 years
Performance guarantee 1: ⁵	12 years, 90% of nominal output
Performance guarantee 2: ⁵	25 years, 80% of nominal output
Maximum permissible system voltage:	1,000 V
Reverse current loadability (I _R):	15 A
Frame material:	Anodised aluminium

Conergy EcoPro	220P	225P	230P	235P	240P	245P
Electrical ratings under standard test conditions:⁶						
Nominal output (P _{nom})	220 W	225 W	230 W	235 W	240 W	245 W
Performance tolerance	-0%/+3 %	-0%/+3 %	-0%/+3 %	-0%/+3 %	-0%/+3 %	-0%/+3 %
Module efficiency (P _{nom})	13.51 %	13.82 %	14.13 %	14.44 %	14.74 %	15.05 %
Voltage at maximum performance (U _{mpp}) ⁷	29.49 V	29.65 V	29.82 V	29.98 V	30.15 V	30.31 V
Current at maximum performance (I _{mpp}) ⁷	7.63 A	7.73 A	7.84 A	7.94 A	8.05 A	8.15 A
Off-load voltage (U _{oc}) ⁷	35.95 V	36.19 V	36.43 V	36.68 V	36.91 V	37.15 V
Short-circuit current (I _{sc}) ⁷	8.13 A	8.22 A	8.32 A	8.41 A	8.51 A	8.60 A
Temperature coefficient (P _{mpp})	-0.44 %/° C	-0.44 %/° C	-0.44 %/° C	-0.44 %/° C	-0.44 %/° C	-0.44 %/° C
Temperature coefficient (U _{oc}), absolute	-0.118 V/° C	-0.118 V/° C	-0.119 V/° C	-0.119 V/° C	-0.120 V/° C	-0.120 V/° C
Temperature coefficient (U _{oc}), in percent	-0.33 %/° C	-0.33 %/° C	-0.33 %/° C	-0.33 %/° C	-0.33 %/° C	-0.33 %/° C
Temperature coefficient (I _{sc}), absolute	4.80 mA/° C	4.86 mA/° C	4.91 mA/° C	4.97 mA/° C	5.02 mA/° C	5.09 mA/° C
Temperature coefficient (I _{sc}), in percent	0.059 %/° C	0.059 %/° C	0.059 %/° C	0.059 %/° C	0.059 %/° C	0.059 %/° C
Electrical rating at 800 W/m², NOCT and AM 1.5						
Power (P _{mpp})	164.54 W	167.63 W	171.02 W	174.16 W	177.60 W	180.79 W
Off-load voltage (U _{oc})	32.96 V	33.18 V	33.41 V	33.64 V	33.86 V	34.08 V
Short-circuit current (I _{sc})	6.58 A	6.66 A	6.74 A	6.81 A	6.89 A	6.97 A
Voltage (U _{mpp})	26.63 V	26.78 V	26.93 V	27.08 V	27.24 V	27.39 V
Current (I _{mpp})	6.18 A	6.26 A	6.35 A	6.43 A	6.52 A	6.60 A

¹ Dimensional tolerance: +/- 1 mm

² Nominal operating temperature of the cell at 800 W/m² irradiation, 20° C ambient temperature, wind speed of 1 m/s

³ In accordance with IEC 61215 Ed. 2

⁴ Weight tolerance: +/- 0.5 kg

⁵ According to Conergy AG's current warranty conditions

⁶ Standard test conditions defined as follows: 1,000 W/m² radiant power at a spectral density of AM 1.5 and a cell temperature of 25° C

⁷ Typical production values

This data sheet complies with the specifications of DIN EN 50380.

Available at: