



Conergy PM 220P–240P

The Conergy PM 220P–240P solar modules offer a high level of module output at an attractive price/performance ratio. They are equipped with 60 efficient, polycrystalline cells and come with a positive performance tolerance. They are characterised by high yields and a long service life. Their production is approved by the high quality standards of Conergy. Thanks to the high quality of manufacture and standardised dimensions, the Conergy PM 220P–240P can be used for nearly all applications.



Benefits for the system operator

- | Attractive price/performance ratio
- | High module output
- | Certification in accordance with IEC/EN 61215 Ed. 2 and IEC/EN 61730
- | Positive performance tolerance
- | Secure investment decision thanks to a 5-year product warranty

Benefits for the installer

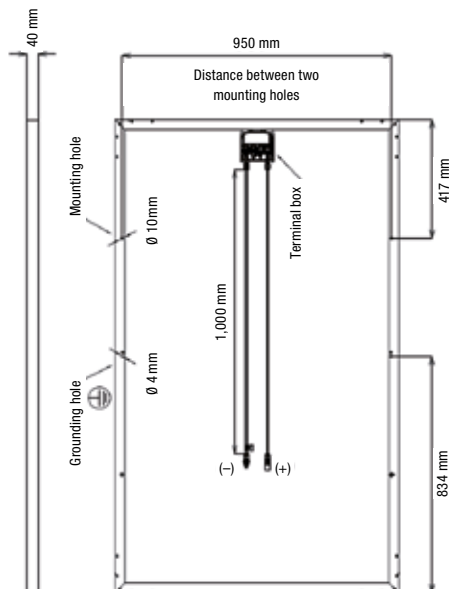
- | Simple installation thanks to functional connection technology
- | Option to combine with Conergy inverters and mounting systems





CONERGY

Conergy PM 220P-240P



Module dimensions (L × W × H): ¹ 1,668 × 1,000 × 40 mm
 Cell dimensions: 156 × 156 mm
 Number of cells: 60
 Cell type: polycrystalline
 NOCT: ² 46 ± 2 °C
 Maximum permissible load: 5,400 Pa ³
 Front cover type: patterned solar glass
 Cable: Tyco Electronics
 Plug type: Tyco
 Module weight: ⁴ 20 kg
 Certification: in accordance with IEC/EN 61215 Ed. 2 and IEC/EN 61730, ISO 9001:2008, ISO 14001:2004, MCS

Product warranty: ⁵ 5 years
 Performance guarantee 1: ⁵ 10 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 (IR): 15 A
 Frame material: anodised aluminium

Conergy PM	220P	225P	230P	235P	240P
Electrical ratings under standard test conditions ⁶					
Nominal output (P _{nom})	220 W	225 W	230 W	235 W	240 W
Performance tolerance	+3 %	+3 %	+3 %	+3 %	+3 %
Module efficiency (P _{nom})	13.20 %	13.50 %	13.80 %	14.10 %	14.39 %
MPP voltage (V _{mpp}) ⁷	30.20 V	30.50 V	30.84 V	31.14 V	30.68 V
MPP current (I _{mpp}) ⁷	7.28 A	7.37 A	7.48 A	7.55 A	7.90 A
Off-load voltage (V _{oc}) ⁷	36.90 V	37.00 V	37.32 V	37.50 V	37.32 V
Short-circuit current (I _{sc}) ⁷	7.85 A	7.89 A	8.00 A	8.02 A	8.50 A
Temperature coefficient (P _{mpp})	-0.44 %/°C	-0.44 %/°C	-0.44 %/°C	-0.44 %/°C	-0.44 %/°C
Temperature coefficient (V _{oc}), absolute	-0.118 V/°C	-0.119 V/°C	-0.119 V/°C	-0.119 V/°C	-0.119 V/°C
Temperature coefficient (V _{oc}), in per cent	-0.32 %/°C	-0.32 %/°C	-0.32 %/°C	-0.32 %/°C	-0.32 %/°C
Temperature coefficient (I _{sc}), absolute	3.2 mA/°C	3.2 mA/°C	3.2 mA/°C	3.2 mA/°C	3.2 mA/°C
Temperature coefficient (I _{sc}), in per cent	0.04 %/°C	0.04 %/°C	0.04 %/°C	0.04 %/°C	0.04 %/°C
Electrical rating at 800 W/m², NOCT and AM 1.5					
Power (P _{mpp})	170.70 Wp	181.74 Wp	185.78 Wp	189.82 Wp	193.85 Wp
Off-load voltage (V _{oc})	34.78 V	34.87 V	35.18 V	35.35 V	35.54 V
Short-circuit current (I _{sc})	6.92 A	6.96 A	7.05 A	7.07 A	7.15 A
Voltage (V _{mpp})	30.44 V	30.74 V	31.08 V	31.39 V	31.72 V
Current (I _{mpp})	5.83 A	5.91 A	5.99 A	6.05 A	6.12 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 from: