



CONERGY

Conergy PM 225P–245P

The Conergy PM 225P–245P solar modules offer a high level of module output at an attractive price/performance ratio. The modules are equipped with 60 efficient, polycrystalline cells, come with a positive only power tolerance, and are characterized by high yields and a long service life. As with all Conergy modules, the Conergy PM is built to our exacting quality assurance and control standards. Thanks to their performance, high quality of manufacture, value, and familiar form factor, the Conergy PM is perfect for nearly any application.



Benefits for the system operator

- | Attractive price/performance ratio
- | High module output
- | Certification in accordance with UL1703 (USA and Canada), IEC/EN 61215 Ed. 2 and IEC/EN 61730
- | Positive performance tolerance of +3 %
- | Secure investment decision thanks to a 10-year product warranty

Benefits for the installer

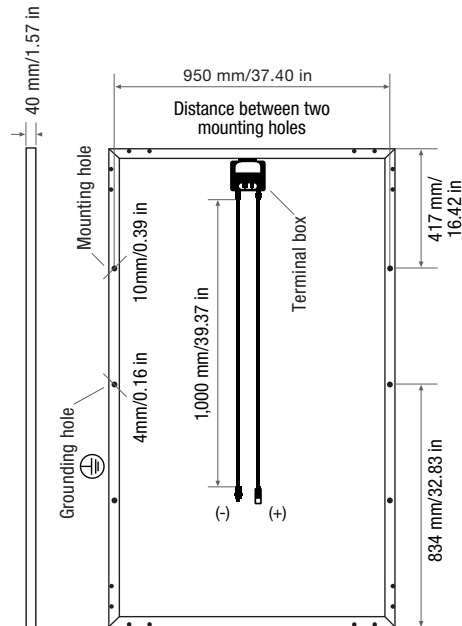
- | Simple installation thanks to industry standard connectors and mounting methods
- | Reliable, low maintenance modules resulting from Conergy's exceptional quality control program





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Module dimensions (L × W × H) ¹	1,668 x 1,000 x 40 mm/65.67 x 39.37 x 1.57 in
Cell dimensions:	156 x 156 mm/6.14 x 6.14 in
Number of cells:	60
Cell type:	Polycrystalline
NOCT: ²	46° C ± 2° C
Maximum permissible load: ³	5,400 Pa/113 psf
Front cover type:	Patterned solar glass
Cable:	4mm ² /12AWG, PV Wire
Plug type:	MC4 or MC4-compatible
Module weight: ⁴	20 kg/44 lbs
Certification:	In accordance with UL1703 (USA and Canada), IEC/EN 61215 Ed. 2 and IEC/EN 61730, ISO 9001:2008, ISO 14001:2004
Product warranty: ⁵	
Materials and workmanship	10 years
Performance 1 ⁵	10 years, 90% of nominal output
Performance 2 ⁵	25 years, 80% of nominal output
Maximum permissible system voltage:	600V/1,000 V UL/IEC
Maximum series fuse rating:	15 A
Frame material:	Anodised aluminium

Conergy PM	225P	230P	235P	240P	245P
Electrical ratings under standard test conditions⁶					
Nominal output (P _{nom})	225 W	230 W	235 W	240 W	245 W
Performance tolerance	-0/+3 %	-0/+3 %	-0/+3 %	-0/+3 %	-0/+3 %
Module efficiency (P _{nom})	13.71 %	13.80 %	14.10 %	14.39 %	14.69 %
MPP voltage (V _{mpp}) ⁷	28.91 V	29.23 V	29.44 V	29.65 V	29.87 V
MPP current (I _{mpp}) ⁷	7.91 A	7.94 A	8.02 A	8.10 A	8.18 A
Open-circuit voltage (V _{oc}) ⁷	36.79 V	37.01 V	37.21 V	37.42 V	37.63 V
Short-circuit current (I _{sc}) ⁷	8.46 A	8.49 A	8.55 A	8.62 A	8.68 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	-0.118 V/°C	-0.119 V/°C	-0.120 V/°C	-0.120 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	3.38 mA/°C	3.40 mA/°C	3.42 mA/°C	3.45 mA/°C	3.47 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})	168.9 Wp	171.5 Wp	174.5 Wp	177.5 Wp	180.6 Wp
Open-circuit voltage (V _{oc})	33.82 V	34.03 V	34.21 V	34.41 V	34.60 V
Short-circuit current (I _{sc})	6.82 A	6.85 A	6.90 A	6.95 A	7.00 A
Voltage (V _{mpp})	26.47 V	26.77 V	26.96 V	27.16 V	27.37 V
Current (I _{mpp})	6.38 A	6.41 A	6.47 A	6.53 A	6.60 A

¹ Dimensional tolerance: ±3 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/1.1 lbs
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: