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 of +3 %
- Secure investment decision thanks to a 5-year product warranty

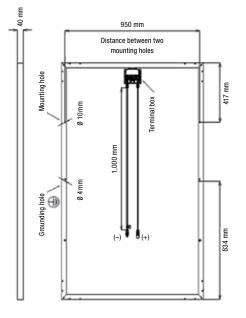
Benefits for the installer

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



Conergy PM 220P-240P





Module dimensions (L \times W \times H): ¹ Cell dimensions: Number of cells: Cell type: NOCT: 2 Maximum permissible load: Front cover type: Cable: Plug type: Module weight: 4 Certification:

Product warranty: 5 Performance guarantee 1: ⁵ Performance guarantee 2: 5 Maximum permissible system voltage: Reverse current loadability (IR): Frame material:

1,668 × 1,000 × 40 mm $156 \times 156 \,\text{mm}$ 60 Polycrystalline 44.4±2°C 5,400 Pa ³ Patterned solar glass Leoni Yukita YS-254/YS-255 (MC4 comparable) 20 kg In accordance with IEC/EN 61215 Ed. 2 and IEC/EN 61730, ISO 9001:2008, ISO 14001:2004 5 years 10 years, 90% of nominal output 25 years, 80% of nominal output 1,000V 15A

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	30.84V	31.14 V	30.68V
MPP current (I _{mpp}) ⁷	7.28 A	7.37 A	7.48 A	7.55A	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	8.02A	8.50A
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 ($V_{ m oc}$), in per cent	−0.32 %/° C	−0.32 %/° C	$-0.32\%/^{\circ}C$	−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})	168.16 Wp	171.98 Wp	175.80 Wp	179.62 Wp	183.44 Wp
Off-load voltage (V_{oc})	34.39V	34.48V	34.78V	34.95V	34.78V
Short-circuit current (I _{sc})	6.79A	6.82 A	6.92A	6.94A	7.35A
Voltage (V _{mpp})	26.77 V	27.04 V	27.34V	27.61 V	27.20V
Current (I _{mpp})	6.26A	6.34A	6.43A	6.49A	6.79A

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

Wind speed of 1 m/s 3 In accordance with IEC 61215 Ed. 2 4 Weight tolerance: ±0.5kg 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 Targiel emotivation explores the second secon

⁷ Typical production values

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

Conergy AG, Anckelmannsplatz 1, 20537 Hamburg, Germany I www.conergy.com

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Subject to technical modifications and errors without notice.

Available at: