



CONERGY



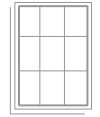
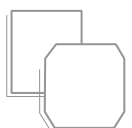

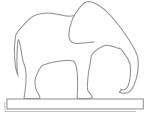

Conergy PE 245P – 265P



The Conergy P-series solar modules offer a high level of module output at an attractive price/performance ratio. They are equipped with efficient cells and have proven their worth in practical applications over the years. They are characterised by high yields and a long service life. Their production is certified in accordance with ISO 9001, ISO 14001 and OHSAS 18001 and meets the high quality standards of Conergy. Solar modules in the Conergy P-series are also available with monocrystalline and polycrystalline cells in other power classes and different module dimensions.

Benefits:

- | High salt corrosion and humidity resistance - complies with IEC 61701: Salt Mist Corrosion Testing
- | Outstanding performance in low-light irradiance environments - anti-reflective and self-cleaning surface reduces power loss from dirt and dust
- | 100% EL double-inspection ensures modules are defects-free

	Module type
	framed
	Nominal output (P_{nom})
	245 W – 265 W
	No. of cells
	60
	Cell type
	polycrystalline
	Module weight
	18.5 kg / 40.7 lb
	Maximum permissible load ¹
	5,400 Pa
	Warranty ²
	10 years



¹ In accordance with IEC 61215 Ed.2 and according to Conergy AG's current installation manual.

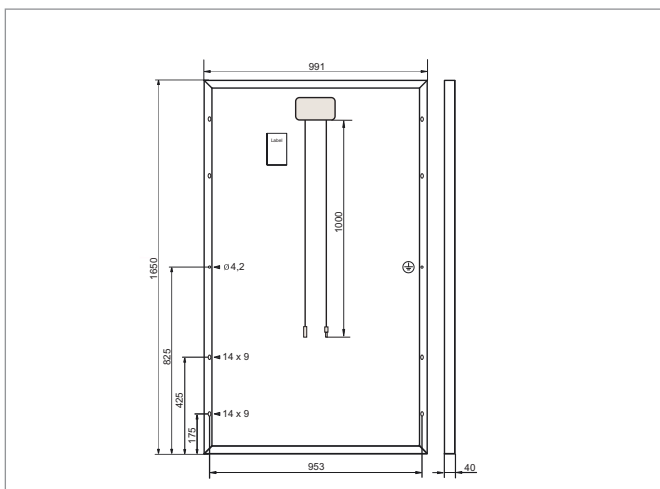
² According to Conergy AG's current warranty conditions.



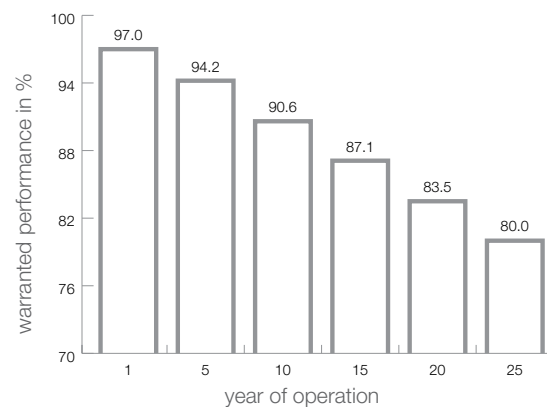
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Mechanical specification

Module dimensions (L x W x H)	1,650 x 991 x 40 mm / 65.00 x 39.01 x 1.57 in
Cell dimensions	156 x 156 mm / 6.14 x 6.14 in
No. of cells	60
Cell type	Polycrystalline cell; 3-busbar technology
NOCT ³	47° C ± 2° C
Maximum permissible load ⁴	5400Pa / 113psf – Front side (long side mount) 2400Pa / 50psf – Front side (short side/corner mount) – Details in Install Manual 2400Pa / 50psf – Back side – (negative load/wind)
Front cover type	Tempered solar glass, 3.2 mm thickness
Junction box	Zhonghuan Sunter PV-ZH011-1; Protection Class IP67; 103 x 69 x 15 mm
Cable	PV Wire PV1-F; 12AWG PV Wire (UL4703); x 1,000 mm length; 4 mm ² cross-section
Plug type	Amphenol Helios H4
Frame material	Anodised aluminium (black frame available)
Module weight	18.50 kg / 40.70 lb
Certification	IEC/EN 61215 Ed. 2, IEC/EN 61730, MCS, ISO 9001:2008, ISO 14001:2004, OHSAS 18001: 2007, UL1703 (US and Canada)
Product warranty ⁵	10 years
Performance warranty ⁵	Linear performance warranty year 1: ≥ 97 % of nominal power output year 25: ≥ 80 % of nominal power output
Maximum permissible system voltage	1000vdc
Reverse current loadability (IR)	15 A
Fire Resistance Rating	Class C
Operating Temperature	-40° to +85° C



Linear performance warranty for Conergy's P-series modules



³ Nominal operating temperature of the cell at 800W/m² irradiation, 20° C ambient temperature, wind speed of 1 m/s

⁴ In accordance with IEC 61215 Ed.2 and according to Conergy AG's current installation manual.

⁵ According to Conergy AG's current warranty conditions



Conergy PE 245P – 265P

Electrical ratings under standard test conditions ⁶

Conergy PE	245P	250P	255P	260P	265P
Nominal output (P_{nom})	≥245W	≥250W	≥255W	≥260W	≥265W
Power class range	-0%/+3%	-0%/+3%	-0%/+3%	-0%/+3%	-0%/+3%
Module efficiency (P_{nom})	14.98%	15.29%	15.59%	15.90%	16.21%
Voltage at maximum performance (V_{mpp})	29.59V	29.94V	30.29V	30.63V	30.96V
Current at maximum performance (I_{mpp})	8.28A	8.35A	8.42A	8.49A	8.56A
Open Circuit Voltage (V_{oc})	37.50V	37.66V	37.82V	37.98V	38.14V
Short-circuit current (I_{sc})	8.86A	8.92A	8.98A	9.04A	9.10A
Temperature coefficient (P_{mpp})	-0.430%/°C	-0.430%/°C	-0.430%/°C	-0.430%/°C	-0.430%/°C
Temperature coefficient (V_{oc}), absolute	-0.124V/°C	-0.124V/°C	-0.125V/°C	-0.125V/°C	-0.126V/°C
Temperature coefficient (V_{oc}), in percent	-0.330%/°C	-0.330%/°C	-0.330%/°C	-0.330%/°C	-0.330%/°C
Temperature coefficient (I_{sc}), absolute	5.14 mA/°C	5.17 mA/°C	5.21 mA/°C	5.24 mA/°C	5.28 mA/°C
Temperature coefficient (I_{sc}), in percent	+0.058%/°C	+0.058%/°C	+0.058%/°C	+0.058%/°C	+0.058%/°C

Electrical rating at 800W/m², NOCT and AM 1.5 ⁷

Conergy PE	245P	250P	255P	260P	265P
Power (P_{mpp})	177.87W	181.50W	185.13W	188.76W	192.39W
Open Circuit Voltage (V_{oc})	34.48V	34.61V	34.68V	34.76V	34.87V
Short-circuit current (I_{sc})	7.03A	7.13A	7.18A	7.21A	7.24A
Voltage (V_{mpp})	27.20V	27.42V	27.71V	28.05V	28.42V
Current (I_{mpp})	6.54A	6.62A	6.68A	6.73A	6.77A

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

⁷ Measuring tolerance STC: +/-3%.