



CONERGY

Conergy PE 295P – 315P



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 the ISO 9001, ISO 14001 and OHSAS 18001 international quality standards 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 powerclasses 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})
	295 W – 315 W
	No. of cells
	72
	Cell type
	polycrystalline
	Module weight
	22.5 kg / 49.6 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.

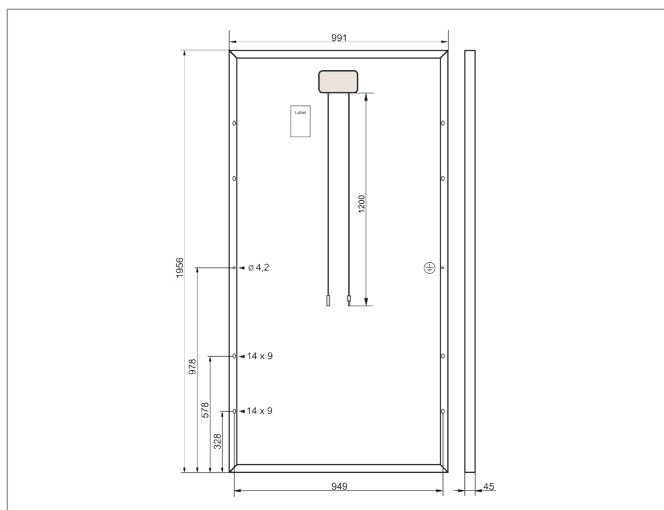
² According to Conergy AG's current warranty conditions.



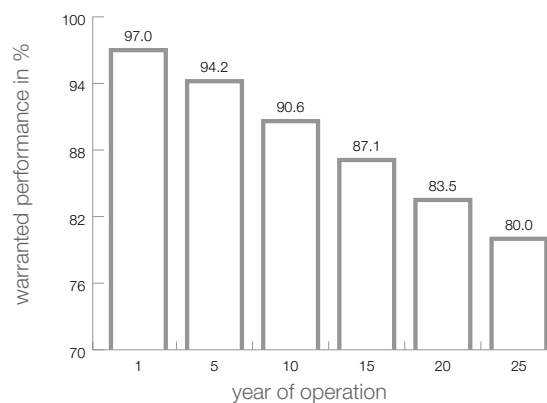
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Mechanical specification

Module dimensions (L x W x H)	1,956 x 991 x 45 mm / 77.01 x 39.01 x 1.77 in
Cell dimensions	156 x 156 mm / 6.14 x 6.14 in
No. of cells	72
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 with 4 mm thickness
Junction box	Zhonghuan Sunter PV-ZH011-1, Protection class IP67; 103 x 69 x 15mm
Cable	PV Wire PV1-F; 12AWG PV Wire (UL4703); x 1,200 mm length; 4 mm ² cross-section
Plug type	Amphenol Helios H4
Frame material	Anodised aluminium
Module weight	22.50 kg / 49.60 lb
Certification:	IEC/EN 61215 Ed. 2, IEC/EN 61730, ISO 9001:2008, ISO 14001:2004, OHSAS 18001: 2007, MCS, UL1703 (US and Canada)
Product warranty ⁵	10 years
Power warranty ⁵	Linear performance warranty year 1: ≥ 97 % of nominal power output year 25: ≥ 80 % of nominal power output
Maximum permissible system voltage	1000vdc
Maximum Series Fuse Rating	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.



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Electrical ratings under standard test conditions ⁶

Conergy PE	295P	300P	305P	310P	315P
Nominal output (P_{nom})	≥295W	≥300W	≥305W	≥310W	≥315W
Power class range	-0%/+3%	-0%/+3%	-0%/+3%	-0%/+3%	-0%/+3%
Module efficiency (P_{nom})	15.22%	15.48%	15.73%	15.99%	16.25%
Voltage at maximum performance (V_{mpp}) ⁷	36.25V	36.41V	36.71V	37.00V	37.28V
Current at maximum performance (I_{mpp}) ⁷	8.14A	8.24A	8.31A	8.38A	8.45A
Open Circuit Voltage (V_{oc}) ⁷	45.00V	45.20V	45.35V	45.45V	45.60V
Short-circuit current (I_{sc}) ⁷	8.65A	8.73A	8.79A	8.85A	8.91A
Temperature coefficient (P_{mpp})	-0.430%/°C	-0.430%/°C	-0.430%/°C	-0.430%/°C	-0.430%/°C
Temperature coefficient (V_{oc}), absolute	-0.149V/°C	-0.149V/°C	-0.150V/°C	-0.150V/°C	-0.151V/°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	5.02mA/°C	5.06mA/°C	5.10mA/°C	5.13mA/°C	5.17mA/°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

Conergy PE	295P	300P	305P	310P	315P
Power (P_{mpp})	214.17W	217.80W	221.43W	225.06W	228.69W
Open Circuit Voltage (V_{oc})	42.14V	42.31V	42.47V	42.58V	42.63V
Short-circuit current (I_{sc})	6.84A	6.89A	6.93A	6.99A	7.06A
Voltage (V_{mpp})	33.57V	33.77V	33.91V	34.05V	34.08V
Current (I_{mpp})	6.38A	6.45A	6.53A	6.61A	6.71A

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%.



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