



Conergy PE 240P – 260P



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
- | Potential Induced Degradation (PID) free

	Module type
	framed
	Nominal output (P_{nom})
	240 W – 260 W
	No. of cells
	60
	Cell type
	polycrystalline
	Module weight
	18.5kg / 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.

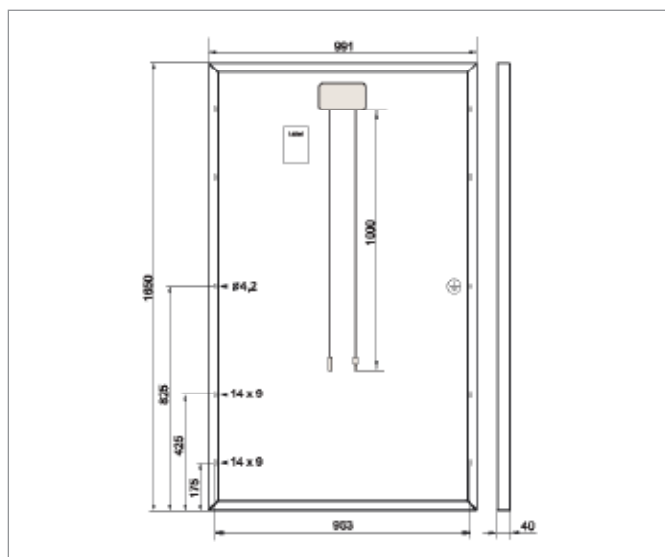
² According to Conergy AG's current warranty conditions.



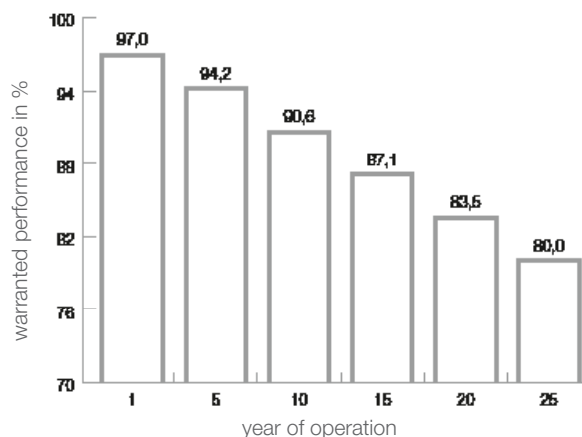
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Mechanical specification

Module dimensions (L x W x H)	65 x 39 x 1.57 in (1,650 x 991 x 40 mm)
Cell dimensions	156 x 156 mm
No. of cells	60
Cell type	Polycrystalline cell; 3-busbar technology
NOCT³	47° C ± 2° C
Maximum permissible load⁴	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	Tongling TL-Box026; Protection class IP67; 90 x 91 x 16mm
Cable	2 x 1,000 mm length, 4 mm ² cross-section
Plug type	Tongling TL-Cable01 (MC4 Compatible)
Frame material	Anodised aluminium (black frame available)
Module weight	40.7 lb (18.5 kg)
Certification	IEC/EN 61215 Ed. 2, IEC/EN 61730, MCS, ISO 9001:2008, ISO 14001:2004, OHSAS 18001: 2007, UL1703 (US and Canada)
Product warranty⁵	10 years
Performance warranty⁵	Linear performance warranty year 1: ≥ 97 % of nominal power output year 25: ≥ 80 % of nominal power output
Maximum permissible system voltage	UL 600vdc, IEC 1000vdc
Reverse current loadability (IR)	15A



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 240P – 260P

Electrical ratings under standard test conditions ⁶

Conergy PE	240P	245P	250P	255P	260P
Nominal output (P_{nom})	≥240W	≥245W	≥250W	≥255W	≥260W
Power class range	-0%/+3%	-0%/+3%	-0%/+3%	-0%/+3%	-0%/+3%
Module efficiency (P_{nom})	14.68%	14.98%	15.29%	15.59%	15.90%
Voltage at maximum performance (V_{mpp})	29.38V	29.63V	29.98V	30.36V	30.77V
Current at maximum performance (I_{mpp})	8.17A	8.27A	8.34A	8.40A	8.45A
Open Circuit Voltage (V_{oc})	37.30V	37.45V	37.54V	37.62V	37.73V
Short-circuit current (I_{sc})	8.65A	8.78A	8.84A	8.88A	8.91A
Temperature coefficient (P_{mpp})	-0.45%/°C	-0.45%/°C	-0.45%/°C	-0.45%/°C	-0.45%/°C
Temperature coefficient (V_{oc}), absolute	-0.123V/°C	-0.124V/°C	-0.124V/°C	-0.124V/°C	-0.125V/°C
Temperature coefficient (V_{oc}), in percent	-0.33%/°C	-0.33%/°C	-0.33%/°C	-0.33%/°C	-0.33%/°C
Temperature coefficient (I_{sc}), absolute	5.36mA/°C	5.44mA/°C	5.48mA/°C	5.51mA/°C	5.52mA/°C
Temperature coefficient (I_{sc}), in percent	0.062%/°C	0.062%/°C	0.062%/°C	0.062%/°C	0.062%/°C

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

Conergy PE	240P	245P	250P	255P	260P
Power (P_{mpp})	177.21W	180.94W	184.66W	188.39W	192.12W
Open Circuit Voltage (V_{oc})	34.09V	34.23V	34.32V	34.39V	34.49V
Short-circuit current (I_{sc})	7.01A	7.12A	7.17A	7.20A	7.23A
Voltage (V_{mpp})	26.75V	26.98V	27.30V	27.66V	28.04V
Current (I_{mpp})	6.63A	6.71A	6.76A	6.81A	6.85A

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%.



Conergy US Headquarters

2460 West 26th Avenue
Suite 280C
Denver, CO 80211
USA
info@conergy.us
Toll Free: 888.396.6611
Tel: 720.305.0700

www.conergy.us

Conergy Canada Headquarters

17815 - 111 Ave.
Edmonton, AB T5S 2X3
Canada
info@conergy.ca
Toll Free: 888.489.3701
Tel: 780.489.3700

www.conergy.ca

Available at:

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