



Conergy PH 230P-250P

The Conergy PH 230P-250P solar modules offer a high level of module output at an attractive price/performance ratio. They are equipped with 60 efficient, polycrystalline 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 international quality standard and meets the high quality standards of Conergy. Thanks to the superb quality of manufacture and standardised dimensions, the Conergy PH 230P-250P can be used for all applications.

Solar modules in the Conergy P-series are also available with monocrystalline and polycrystalline cells in other power classes and different module dimensions.



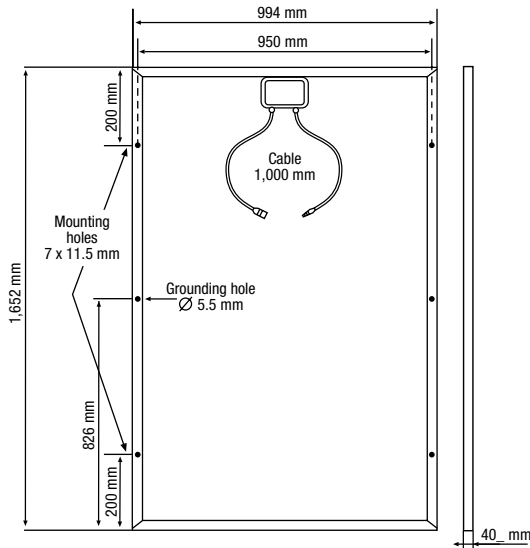
Features:

- | Attractive price/performance ratio
- | 3 busbar cell design for better efficiency and yield
- | Precision, +3% power tolerance
- | 10-year product warranty
- | PV wire cables for use with transformerless inverters
- | Robust frame design allows short side frame mounting
- | Certified to UL 1703 (US and Canada), IEC/EN 61215 Ed.2, IEC/EN 61730



CONERGY

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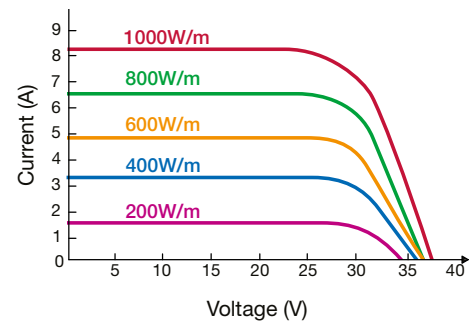
Module dimensions (L x W x H)	1652 x 994 x 40mm / 65.0 x 39.1 x 1.57 in
Cell dimensions	156 x 156 mm/6.14 x 6.14 in
Number of cells	60
Module weight	19kg/41.8lb
	5400Pa/113psf - standard mount zones
	2400Pa/50psf - short side mount zones
Maximum load	
Glass	3.2mm tempered
Junction box	IP65 Class
Cable	1000mm/39.4 in, 4mm ² 12AWG PV wire (UL4703)
Connector	MC4 Compatible
Certifications	
Operating certifications	UL1703 (USA and Canada), IEC 61215 Ed.2
Fire safety classification	Class C
Warranty	
Material and workmanship warranty	10 years
Power warranty 1	90%/10 years
Power warranty 2	80%/25 years



	Conergy PH Series				
	230P	235P	240P	245P	250P
Rated power (P_{max})¹	230W	235W	240W	245W	250W
Power tolerance	+3%	+3%	+3%	+3%	+3%
Module efficiency	14.0%	14.3%	14.6%	14.9%	15.2%
Maximum power voltage (V_{mpp})	27.78V	29.16V	29.54V	29.92V	30.30V
Maximum power current (I_{mpp})	7.99A	8.06A	8.13A	8.20A	8.27A
Open circuit voltage (V_{oc})	37.4V	37.6V	37.8V	37.98V	38.19V
Short circuit current (I_{sc})	8.53A	8.56A	8.59A	8.62A	8.65A
Nominal Operating Cell Temperature (NOCT)	43±2°C				
Temperature coefficient (P_{max})	-0.47%/°C				
Temperature coefficient (V_{oc})	-0.34 %/°C				
Temperature coefficient (I_{sc})	0.05 %/°C				
Maximum system voltage	600V(UL)/1000V (IEC)				
Maximum Series Fuse Rating	15A				

¹ At Standard Test Conditions (STC): 1000W/m², 25°C, air mass 1.5

Conergy PH 230P I-V Curves



Available from: