



Conergy PowerPlus 200P–230P

Conergy PowerPlus modules stand for reliably high yields and long service life. They are wholly developed and manufactured in our factory in Frankfurt (Oder). The fully automated manufacturing process ensures that the quality of the modules remains consistently high. Thanks to the positive performance tolerance of up to 2,5% of the nominal power, more electricity is produced throughout the operational life of the system. This benefit is reinforced on our particularly high-performance modules thanks to the positive performance tolerance. In addition, comprehensive product and efficiency warranties guarantee a secure investment.



Benefits for the system operator:

- | Reliably high yields thanks to high-performance modules
- | Guaranteed nominal power and up to 2,5% more module power due to positive power tolerance
- | High yield security due to improved warranted power of 92% of the nominal power for 12 years and 80% for 25 years
- | Long service life thanks to high-quality craftsmanship and quality components
- | Secure investment decision thanks to 5-year product warranty.¹ Extendable to 10 years on request.²
- | Tested and certified in accordance with IEC/EN 61215 Ed. 2 and IEC/EN 61730

Benefits for the installer:

- | Flexible deployment in areas of extreme weather conditions
- | Secure installation thanks to reverse polarity protected plugs with twist lock
- | Modules delivered in perfect condition thanks to secure transportation packaging and robust module frames
- | Reliable operation thanks to high-quality components
- | Customer-friendly after sales service

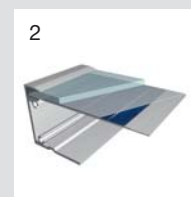


1 | Cell

High performer:
The highly-efficient 3 busbar cells indicate an optimised cell design and innovative technology. Ongoing minor improvements in cell production help get the best out of the silicon material.

2 | Frame and glass

All-weather professional:
Whether wind pressure, snow loads or temperature fluctuations – the 4 mm thick solar glass and warp resistant frame can withstand the most extreme of conditions.



3 | Connection socket

Continuous operation:
The waterproof socket with 3 passively cooled bypass diodes guarantees maximum yields even in unfavourable environmental conditions.

4 | Inverter

Easily combinable:
Conergy PowerPlus modules are unbeatable in conjunction with Conergy inverters.

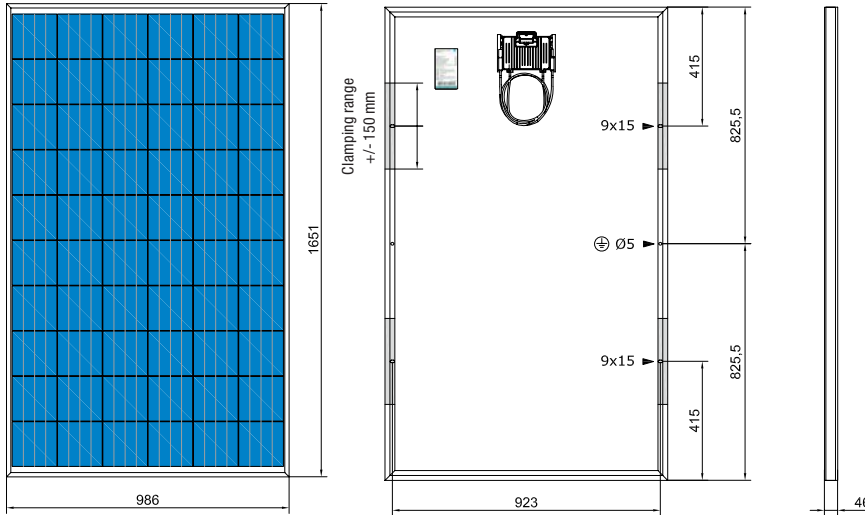


¹ According to the manufacturer's current warranty conditions

² The warranty extension is an after sales product of the respective sales organisation in your country.



Conergy PowerPlus 200P-230P



Module dimensions (L x W x H):	1,651 × 986 × 46 mm
Cell dimensions:	156 x 156 mm
Number of cells (polycrystalline):	60
NOCT: ¹	43.4° C
Maximum permissible load:	5,400 Pa ⁴
Glass thickness:	4 mm
Cable:	2 x 1,000 mm length, 4 mm ² cross section
Plug type:	Huber & Suhner: Plug connector with integrated twist lock
Module weight:	22 kg
Certification:	in accordance with IEC/EN 61215 Ed. 2, IEC/EN 61730
Product warranty: ²	5 years, can be extended to 10 years on request

All figures are given in mm

	Conergy PowerPlus 200P	Conergy PowerPlus 205P	Conergy PowerPlus 210P	Conergy PowerPlus 215P	Conergy PowerPlus 220P	Conergy PowerPlus 225P	Conergy PowerPlus 230P
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Nominal power at STC³	200 Wp	205 Wp	210 Wp	215 Wp	220 Wp	225 Wp	230 Wp
Power tolerance	+2,5%	+2,5%	+2,5%	+2,5%	+2,5%	+2,5%	+2,5%
Efficiency of the module	12,29%	12,59%	12,90%	13,21%	13,51%	13,82%	14,13%
Rated voltage (U_{mpp})	28,52 V	28,56 V	28,65 V	28,80 V	29,01 V	29,23 V	29,54 V
Rated current (I_{mpp})	7,09 A	7,26 A	7,41 A	7,54 A	7,65 A	7,74 A	7,82 A
Open-circuit voltage (U_{oc})	35,29 V	35,53 V	35,77 V	36,00 V	36,23 V	36,43 V	36,66 V
Short-circuit current (I_{sc})	7,72 A	7,83 A	7,94 A	8,04 A	8,15 A	8,24 A	8,34 A
Temperature coefficient (P_{mpp}) procentual	-0,45%/°C	-0,45%/°C	-0,45%/°C	-0,45%/°C	-0,45%/°C	-0,45%/°C	-0,45%/°C
Temperature coefficient (U_{oc}) absolute	-0,120 V/°C	-0,121 V/°C	-0,122 V/°C	-0,122 V/°C	-0,123 V/°C	-0,124 V/°C	-0,125 V/°C
Temperature coefficient (U_{oc}) procentual	-0,34%/°C	-0,34%/°C	-0,34%/°C	-0,34%/°C	-0,34%/°C	-0,34%/°C	-0,34%/°C
Temperature coefficient (I_{sc}) absolute	3,9 mA/°C	3,9 mA/°C	4,0 mA/°C	4,0 mA/°C	4,1 mA/°C	4,1 mA/°C	4,2 mA/°C
Temperature coefficient (I_{sc}) procentual	0,05%/°C	0,05%/°C	0,05%/°C	0,05%/°C	0,05%/°C	0,05%/°C	0,05%/°C
Warranted power 1	12/92 years/%	12/92 years/%	12/92 years/%	12/92 years/%	12/92 years/%	12/92 years/%	12/92 years/%
Warranted power 2	25/80 years/%	25/80 years/%	25/80 years/%	25/80 years/%	25/80 years/%	25/80 years/%	25/80 years/%

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

² According to the manufacturer's current warranty conditions. The warranty extension is an after sales product of the respective sales organisation in your country.

³ 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

⁴ According to IEC 61215 Ed. 2

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