



# Conergy PowerPlus 170MC–185MC

Conergy extends its successful Conergy PowerPlus product line to include the new power class of 170-185 Wp. Due to the compact dimensions, these modules with 48 cells can be installed very flexibly. 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. In addition, comprehensive product and efficiency warranties guarantee a secure investment.



**NEW**  
positive  
performance  
tolerance



### Benefits for the system operator:

- | Reliably high yields thanks to positive power tolerance up to 2,5%
- | Optimized roof coverage thanks to compact dimensions
- | 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.<sup>1</sup> Extendable to 10 years on request.<sup>2</sup>
- | Tested and certified in accordance with IEC/EN 61215 Ed. 2 and IEC/EN 61730

### Benefits for the installer:

- | Low weight and compact dimensions
- | More flexibility and plant configuration
- | 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

### 1 | Cell

High performer:  
The highly-efficient 3 busbar cells indicate an optimised cell design and innovative technology.

### 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 | Junction box

Continuous operation:  
The waterproof junction box 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.

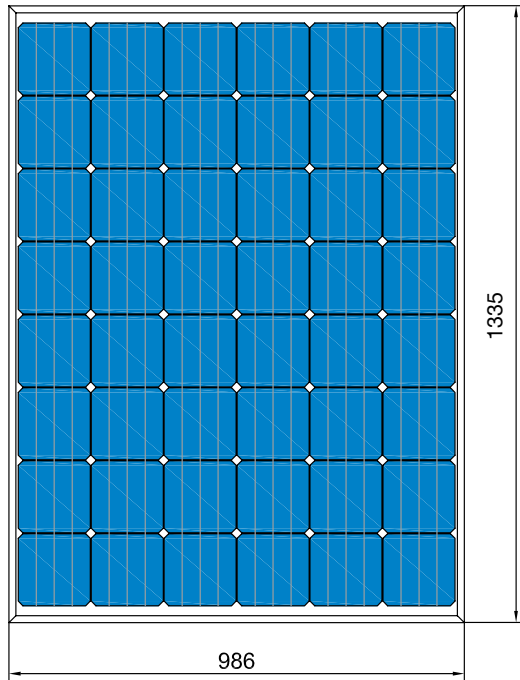


<sup>1</sup> According to the current warranty conditions of Conergy AG

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



# Conergy PowerPlus 170MC–185MC



Module dimensions  
(L x W x H): 1,335 × 986 × 46 mm  
 Cell dimensions: 156 x 156 mm  
 Number of cells: 48  
 Type of cells: monocrystalline  
 NOCT:<sup>1</sup> 43.4° C  
 Maximum permissible load: 5,400 Pa<sup>4</sup>  
 Glass thickness: 4 mm  
 Cable: 2 x 1,000 mm length,  
 4 mm<sup>2</sup> cross section  
 Plug type: Huber + Suhner: Plug connector  
 with integrated twist lock  
 Module weight: 18 kg  
 Certification: in accordance with IEC/EN  
 61215 Ed. 2, IEC/EN 61730  
 Product warranty:<sup>2</sup> 5 years, can be extended  
 to 10 years on request

All figures are given in mm

	Conergy PowerPlus 170MC	Conergy PowerPlus 175MC	Conergy PowerPlus 180MC	Conergy PowerPlus 185MC
Nominal power at STC <sup>3</sup>	170 Wp	175 Wp	180 Wp	185 Wp
Power tolerance	-0/+2.5%	-0/+2.5%	-0/+2.5%	-0/+2.5%
Efficiency of the module	12.91 %	13.29 %	13.67 %	14.05 %
Rated voltage (U <sub>mpp</sub> )	22.97 V	23.41 V	23.83 V	24.18 V
Rated current (I <sub>mpp</sub> )	7.47 A	7.55 A	7.62 A	7.69 A
Open-circuit voltage (U <sub>oc</sub> )	27.81 V	28.45 V	29.06 V	29.69 V
Short-circuit current (I <sub>sc</sub> )	8.15 A	8.17 A	8.20 A	8.23 A
Temperature coefficient (P <sub>mpp</sub> ) procentual	-0.45 %/°C	-0.45 %/°C	-0.45 %/°C	-0.45 %/°C
Temperature coefficient (U <sub>oc</sub> ) procentual	-0.34 %/°C	-0.34 %/°C	-0.34 %/°C	-0.34 %/°C
Temperature coefficient (I <sub>sc</sub> ) procentual	+0.05 %/°C	+0.05 %/°C	+0.05 %/°C	+0.05 %/°C
Warranted power 1 <sup>2</sup>	12/92 years/%	12/92 years/%	12/92 years/%	12/92 years/%
Warranted power 2 <sup>2</sup>	25/80 years/%	25/80 years/%	25/80 years/%	25/80 years/%

<sup>1</sup> Nominal operating temperature of the cell at 800 W/m<sup>2</sup> irradiation, 20° C ambient temperature, wind speed of 1 m/s

<sup>2</sup> According to the current warranty conditions of Conergy AG. The warranty extension is an after sales product of the respective sales organisation in your country.

<sup>3</sup> Standard Test Conditions defined as follows: 1,000 W/m<sup>2</sup> radiant power at a spectral density of AM 1.5 and a cell temperature of 25° C

<sup>4</sup> According to IEC 61215 Ed. 2

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