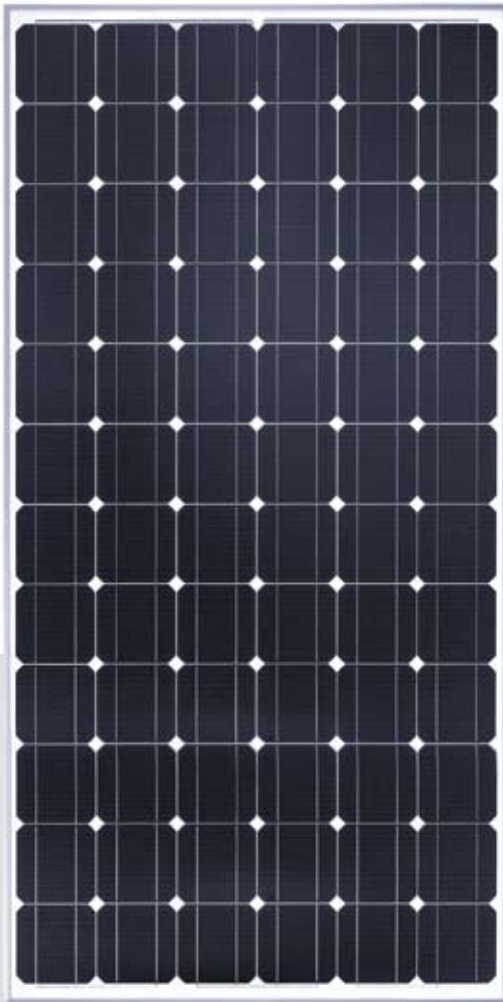




# Conergy PH 175M–190M

The Conergy PH 175M–190M solar modules offer a multitude of possible uses at an attractive price/performance ratio. They are equipped with 72 efficient monocrystalline cells and have proven their worth in practical applications over the years. They are characterised by high yields and a long service life. The production process is certified according to the ISO 9001 international quality standard and also meets the high quality standards of Conergy. Thanks to the high-quality manufacturing and the small module width, the Conergy PH 175M–190M can be used for a variety of applications.

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



#### Benefits for the system operator

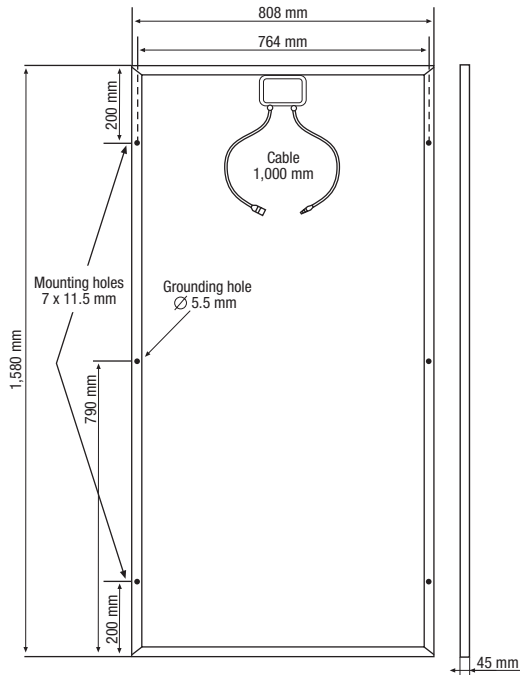
- | Attractive price/performance ratio
- | Certification in accordance with IEC/EN 61215 Ed. 2 and IEC/EN 61730
- | Low performance tolerance of  $\pm 2.5\%$
- | Secure investment decision thanks to a 10-year product warranty

#### Benefits for the installer

- | Simple installation thanks to functional connection technology
- | Option to combine with Conergy inverters and mounting systems



# Conergy PH 175M–190M



Module dimensions (L × W × H): <sup>1</sup> 1,580 × 808 × 45 mm  
 Cell dimensions: 125 × 125 mm  
 Number of cells: 72  
 Cell type: monocrystalline  
 NOCT: <sup>2</sup> 47 ± 2 °C  
 Maximum permissible load: 5,400 Pa <sup>3</sup>  
 Front cover type: patterned solar glass  
 Cable: Xinhongye PV1-F  
 Plug type: PV-CY01L (MC4-compatible)  
 Module weight: <sup>4</sup> 15.5 kg  
 Certification: in accordance with IEC/EN 61215 Ed. 2 and IEC/EN 61730, ISO 9001:2008, ISO 14001:2004  
 Product warranty: <sup>5</sup> 10 years  
 Performance guarantee 1: <sup>5</sup> 10 years, 90 % of nominal output  
 Performance guarantee 2: <sup>5</sup> 25 years, 80 % of nominal output  
 Maximum permissible system voltage: 1,000 V  
 Reverse current loadability (IR): 14 A  
 Frame material: anodised aluminium

Conergy PH	175M	180M	185M	190M
<b>Electrical ratings under standard test conditions <sup>6</sup></b>				
Nominal output (P <sub>nom</sub> )	175 W	180 W	185 W	190 W
Performance tolerance	±2.5 %	±2.5 %	±2.5 %	±2.5 %
Module efficiency (P <sub>nom</sub> )	13.71 %	14.10 %	14.49 %	14.88 %
MPP voltage (V <sub>mpp</sub> ) <sup>7</sup>	35.65 V	36.02 V	36.38 V	36.74 V
MPP current (I <sub>mpp</sub> ) <sup>7</sup>	4.92 A	5.00 A	5.09 A	5.17 A
Off-load voltage (V <sub>oc</sub> ) <sup>7</sup>	44.63 V	44.88 V	45.12 V	45.37 V
Short-circuit current (I <sub>sc</sub> ) <sup>7</sup>	5.23 A	5.31 A	5.39 A	5.47 A
Temperature coefficient (P <sub>mpp</sub> )	-0.48 %/°C	-0.48 %/°C	-0.48 %/°C	-0.48 %/°C
Temperature coefficient (V <sub>oc</sub> ), absolute	-0.158 V/°C	-0.159 V/°C	-0.160 V/°C	-0.161 V/°C
Temperature coefficient (V <sub>oc</sub> ), in per cent	-0.36 %/°C	-0.36 %/°C	-0.36 %/°C	-0.36 %/°C
Temperature coefficient (I <sub>sc</sub> ), absolute	3.3 mA/°C	3.3 mA/°C	3.4 mA/°C	3.4 mA/°C
Temperature coefficient (I <sub>sc</sub> ), in per cent	0.06 %/°C	0.06 %/°C	0.06 %/°C	0.06 %/°C
<b>Electrical rating at 800 W/m<sup>2</sup>, NOCT and AM 1.5</b>				
Power (P <sub>mpp</sub> )	116 Wp	119 Wp	123 Wp	126 Wp
Off-load voltage (V <sub>oc</sub> )	40.02 V	40.24 V	40.46 V	40.68 V
Short-circuit current (I <sub>sc</sub> )	3.97 A	4.03 A	4.09 A	4.15 A
Voltage (V <sub>mpp</sub> )	31.73 V	32.36 V	32.43 V	32.79 V
Current (I <sub>mpp</sub> )	3.67 A	3.73 A	3.79 A	3.85 A

<sup>1</sup> Dimensional tolerance: +/- 1 mm.  
<sup>2</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>3</sup> In accordance with IEC 61215 Ed. 2.  
<sup>4</sup> Weight tolerance: +/- 0.5 kg.  
<sup>5</sup> According to Conergy AG's current warranty conditions.  
<sup>6</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>7</sup> Typical production values.

This data sheet complies with the specifications of DIN EN 50380.

Available from: