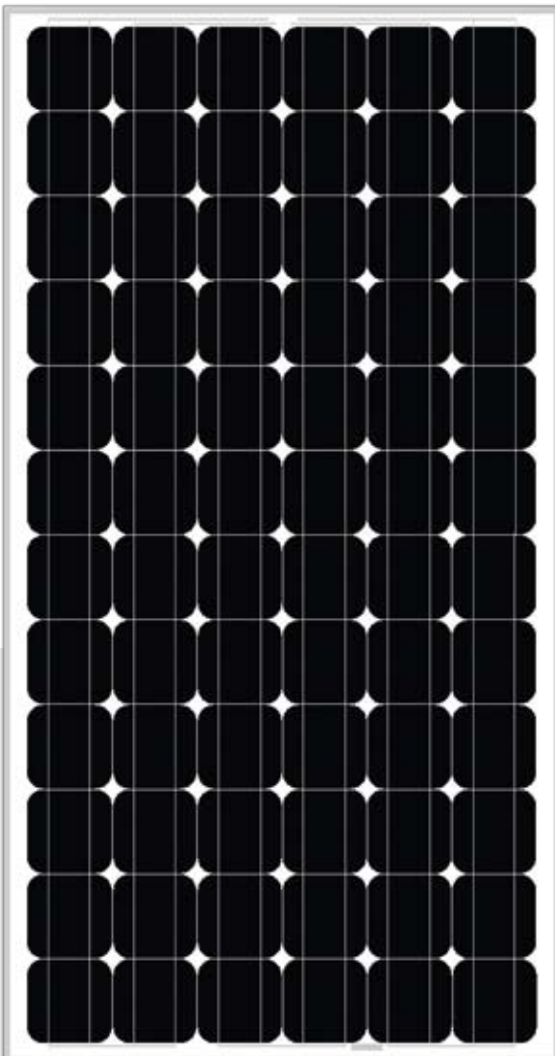




# Conergy P 170–190M

The Conergy P 170–190M 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 yield 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 P 170–190M can be used for 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

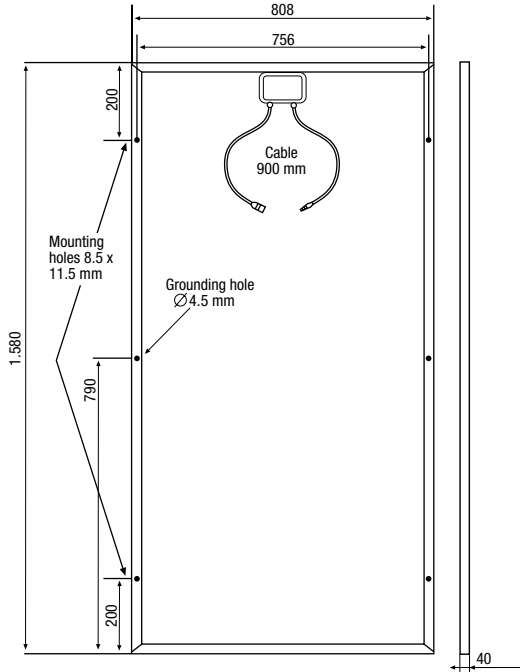
- | Attractive price/performance ratio
- | Certification in accordance with IEC/EN 61215 Ed. 2 and IEC/EN 61730
- | Low performance tolerance of +/- 3%
- | Secure investment decision thanks to a 5-year product warranty

#### Benefits for the installer

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



# Conergy P 170–190M



All dimensions in mm

**Module dimensions**  
 (L × W × H): 1,580 × 808 × 40 mm  
 Cell dimensions: 125 × 125 mm  
 Number of cells: 72  
 Cells: monocrystalline  
 NOCT:<sup>1</sup> 45° C  
 Weight: 14 kg  
 Certification: in accordance with IEC/EN 61215 Ed. 2 and IEC/EN 61730  
**Product warranty:** 5 years  
**Warranted power:** 90% of the nominal power for 12 years  
 80% of the nominal power for 25 years  
**Maximum system voltage:** 1,000V

	Conergy P 170M	Conergy P 175M	Conergy P 180M	Conergy P 185M	Conergy P 190M
<b>Electrical values</b>					
<b>Nominal output (P<sub>NOM</sub>) according to STC<sup>2</sup></b>	170 W	175 W	180 W	185 W	190 W
<b>Performance tolerance</b>	±3 %	±3 %	±3 %	±3 %	±3 %
<b>Module efficiency factor</b>	13.3 %	13.7 %	14.1 %	14.5 %	14.88 %
<b>MPP voltage (V<sub>MPP</sub>)</b>	35.9 V	36 V	36 V	36.1 V	35.8 V
<b>MPP current (I<sub>MPP</sub>)</b>	4.74 A	4.86 A	5 A	5.12 A	5.33 A
<b>Off-load voltage (V<sub>OC</sub>)</b>	44.5 V	44.8 V	45 V	45.3 V	44.8 V
<b>Short-circuit current (I<sub>SC</sub>)</b>	5.12 A	5.17 A	5.2 A	5.23 A	5.78 A
<b>Temperature coefficient (P<sub>MPP</sub>)</b>	-0.44 %/° C	-0.44 %/° C	-0.44 %/° C	-0.44 %/° C	-0.44 %/° C
<b>Temperature coefficient (V<sub>OC</sub>)</b>	-0.147 V/° C	-0.148 V/° C	-0.149 V/° C	-0.149 V/° C	-0.148 V/° C
<b>Temperature coefficient (V<sub>OC</sub>)</b>	-0.33 %/° C	-0.33 %/° C	-0.33 %/° C	-0.33 %/° C	-0.33 %/° C
<b>Temperature coefficient (I<sub>SC</sub>)</b>	1.5 mA/° C	1.6 mA/° C	1.6 mA/° C	1.6 mA/° C	1.7 mA/° C
<b>Temperature coefficient (I<sub>SC</sub>)</b>	0.03 %/° C	0.03 %/° C	0.03 %/° C	0.03 %/° C	0.03 %/° C
<b>Junction box specifications</b>					
<b>Socket dimensions (L × W × H)</b>	143 × 140 × 29 mm				
<b>Protection type</b>	IP 65				

<sup>1</sup> Normal 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> Standard Test Conditions defined as follows: 1,000 W/m<sup>2</sup> radiant power at a spectral density of AM 1.5 (ASTM E892), cell temperature of 25° C.

Available from: