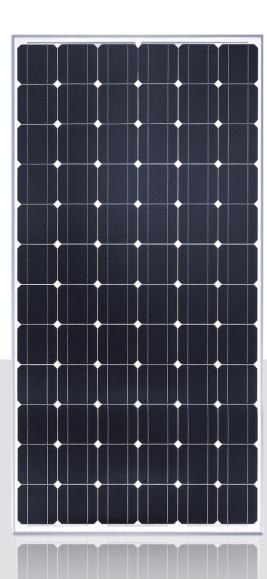


Conergy PH 190M-200M

The Conergy PH 190M-200M 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 190M–200M 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

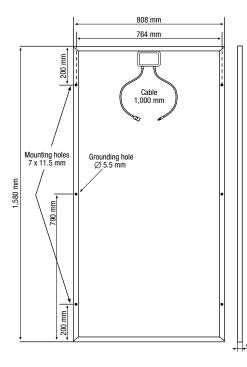
- | Attractive price/performance ratio
- Certification in accordance with IEC/EN 61215 Ed. 2 and IEC/EN 61730
- Performance tolerance of ±2.5%
- Secure investment decision thanks to a 10 year product warranty

Benefits for the installer

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

CONERGY

Conergy PH 190M-200M



Module dimensions (L×W×H):1 1,580 × 808 × 45 mm Cell dimensions: 125 × 125 mm

Number of cells: 72

Cell type: monocrystalline NOCT: ² 48±2°C 5,400 Pa 3 Maximum permissible load:

Front cover type: patterned solar glass Cable: Xinhongye PV1-F Plug type: PV-CY01L Module weight: 4 15.0 kg

Certification in accordance with: IEC/EN 61215 Ed. 2

IEC/EN 61730 ISO 9001:2008 ISO 14001:2004, MCS

10 years

Performance guarantee 1: 5 10 years, 90 % of nominal output Performance guarantee 2: 5 25 years, 80 % of nominal output

Maximum permissible system voltage: 1,000 V Reverse current loadability (IR): 14 A

Product warranty: 5

Frame material: anodised aluminium

Conergy PH	190M	195M	200M
Electrical ratings under			
Nominal output (P _{nom})	190 W	195 W	200 W
Performance tolerance	±2.5%	±2.5%	±2.5%
Module efficiency (P _{nom})	14.88%	15.27%	15.67%
MPP voltage (V _{mpp}) ⁷	36.74 V	37.10 V	37.64 V
MPP current (I _{mpp}) ⁷	5.17 A	5.25 A	5.34 A
Off-load voltage (V _{oc}) ⁷	45.37 V	45.62 V	45.87 V
Short-circuit current (I _{sc}) ⁷	5.47 A	5.55 A	5.63 A
Temperature coefficient (P _{mpp})	−0.48 %/° C	−0.48 %/° C	−0.48 %/° C
Temperature coefficient (V _{oc}), absolute	−0.161 V/° C	−0.162 V/° C	−0.163 V/° C
Temperature coefficient (V _{oc}), in per cent	−0.36 %/° C	−0.36 %/° C	−0.36 %/° C
Temperature coefficient (I _{sc}), absolute	3.4 mA/° C	3.4 mA/° C	3.5 mA/° C
Temperature coefficient (I _{sc}), in per cent	0.06%/°C	0.06%/°C	0.06%/°C
Electrical rating at 800 W/			
Power (P _{mpp})	126 Wp	129Wp	133 Wp
Off-load voltage (V _{oc})	40.68 V	40.91 V	41.13 V
Short-circuit current (I _{sc})	4.15 A	4.22 A	4.28 A
Voltage (V _{mpp})	32.79 V	33.15 V	33.44 V
Current (I _{mpp})	3.85 A	3.91 A	3.98 A

¹ Dimensional tolerance: +/-1 mm.

Available from:

² Nominal operating temperature of the cell at 800 W/m² irradiation, 20°C ambient

temperature, wind speed of 1 m/s.

³ In accordance with IEC 61215 Ed. 2.

⁴ Weight tolerance: +/- 0.5kg.
5 According to Conergy AG's current warranty conditions.

⁶ 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.

⁷ Typical production values.

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