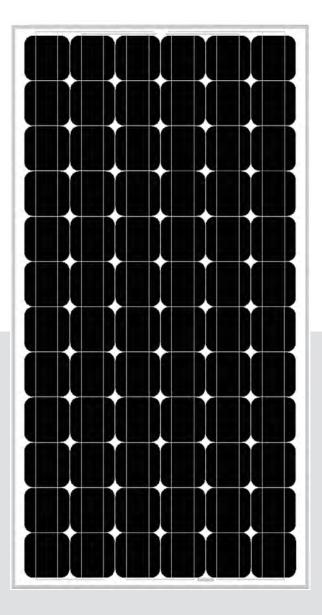
Conergy P 190M–195M 35mm



The Conergy P 180M–195M 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 P 180M–195M 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

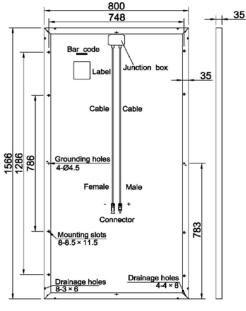
- | Attractive price/performance ratio
- Certification in accordance with IEC/EN 61215 Ed. 2 and IEC/EN 61730
- | Low performance tolerance of +/- 3%
- Secure investment decision thanks to a 5-year product warranty

Benefits for the installer

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

Conergy P 190M–195M 35mm





Module dimensions $(L \times W \times H)^{1}$: Cell dimensions: Number of cells: Cell type: NOCT: ² Maximum permissible load: Front cover type: Cable: Plug type: Module weight: 4 Certification: Product warranty: 5 Performance guarantee 1: 5 Performance guarantee 2: 5

Reverse current loadability (IR):

Frame material:

1,566 × 800 × 35 mm 125 × 125 mm 72 monocrystalline 45±3°C 5.400 Pa ³ patterned solar glass Nantong Wirosun PV1-F Linyang 13kg in accordance with IEC/EN 61215 Ed. 2 and IEC/EN 61730, ISO 9001:2008, ISO 14001:2004 5 years 12 years, 90% of nominal output 25 years, 80% of nominal output Maximum permissible system voltage: 1.000 V 13.5A anodised aluminium alloy

BACK VIEW

| Conergy P | 180M | 185M | 190M | 195M |
|---|--------------|--------------|--------------|--------------|
| Electrical ratings under STC ⁶ | 7 | | · | |
| Nominal output (P _{nom}) | 180 W | 185 W | 190 W | 195 W |
| Performance tolerance | ±3% | ±3% | ±3% | ±3% |
| Module efficiency (P _{nom}) | 14.10% | 14.49% | 14.88% | 15.30% |
| MPP voltage (V _{mpp}) ⁷ | 35.4 V | 35.6V | 35.8V | 36.0V |
| MPP current (I _{mpp}) ⁷ | 5.11 A | 5.21 A | 5.33A | 5.42 A |
| Off-load voltage (V _{oc}) ⁷ | 44.3V | 44.6V | 44.8V | 45.0V |
| Short-circuit current (I _{sc}) ⁷ | 5.59A | 5.68A | 5.78A | 5.85A |
| Temperature coefficient (P _{mpp}) | −0.44 %/° C | −0.44 %/° C | −0.44 %/° C | −0.44 %/° C |
| Temperature coefficient (V_{oc}), absolute | -0.146 V/° C | -0.147 V/° C | −0.148 V/° C | -0.148 V/° C |
| Temperature coefficient (V_{oc}), in per cent | −0.33 %/° C | −0.33 %/° C | -0.33 %/° C | −0.33 %/° C |
| Temperature coefficient (I_{sc}) , absolute | 1.7 mA/° C | 1.7 mA/° C | 1.7 mA/° C | 1.7 mA/° C |
| Temperature coefficient (I_{sc}) , in per cent | 0.03%/°C | 0.03 %/° C | 0.03 %/° C | 0.03 %/° C |
| Electrical rating at 800 W/2, NOCT and AM 1 | .5 | | | |
| Power (P _{mpp}) | 131 Wp | 134 Wp | 137 Wp | 140 Wp |
| Off-load voltage (V _{oc}) | 40.8V | 41.0 V | 41.2 V | 41.4 V |
| Short-circuit current (I _{sc}) | 4.53A | 4.60 A | 4.68A | 4.74 A |
| Voltage (V _{mpp}) | 31.9V | 32.0 V | 32.2V | 32.4 V |
| Current (I _{mpp}) | 4.09A | 4.17 A | 4.26A | 4.34A |

¹ Dimensional tolerance: +/-1 mm.

²Nominal operating temperature of the cell at 800W/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.

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