Conergy P 170-185M

PHOTOVOLTAICS

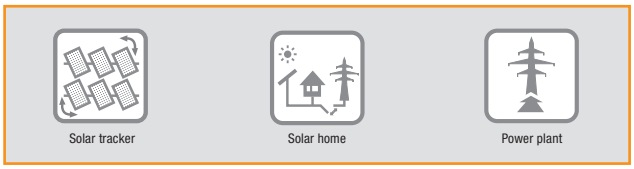
High durability in rigorous conditions

The Conergy solar modules P 170-185M are designed for large electrical power requirements. Its high-quality properties facilitate its use in a wide range of applications. Extremely powerful and reliable these modules have highefficient monocristalline cells.

- Cells embedded in EVA (ethylene vinyl acetate) ensure a long-term performance
- Solar glass on the front side raises the UV resistance and improves the insulation
- Using waterproof film extends the outdoor use

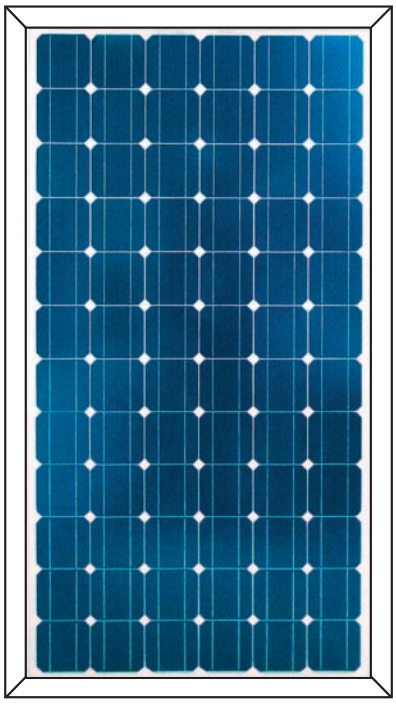
- Its sturdy aluminium frame offers a higher resistance
- Modules are equipped with MC IV connectors to enable fast and safe installation

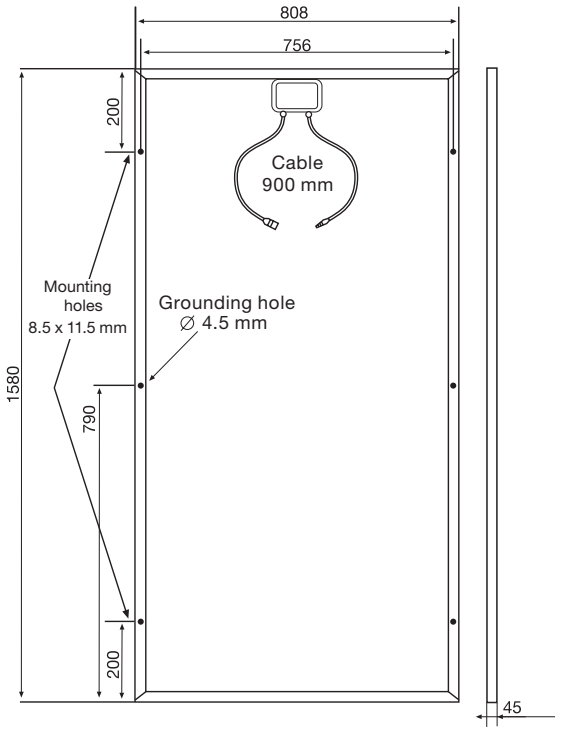
- 5 year product warranty[1]
- 12 year warranty on 90 % of the minimum power[1]
- 25 year warranty on 80 % of the minimum power[1]
- IEC 61215 and IEC 61730



These modules can be used in a wide range of applications. Ideal for power plant, solar home, tracker or flat roof these modules offer you the best solution for your On-Grid installation.

We suggest you connect this module with one of our reliable and flexible IPG Inverters. For every type and sizes of application, we offer secure and durable mounting systems. Whether pitched roof, flat roof, open field, pole top or custom-made installation – Conergy mounting systems are designed to suit all individual requirements.





All dimensions in mm

[1] According to current Conergy warranty conditions.

Conergy P 170-185M

CONERGY

PHOTOVOLTAICS

Electrical specifications	P 170M	P 175M	P 180M	P 185M
Nom. power (P_{NOM}) as per STC[1]	170 W	175 W	180 W	185 W
Tolerance	±3 %	±3 %	±3 %	±3 %
Module efficiency	13.3 %	13.7 %	14.1 %	14.5 %
MPP voltage (V_{MPP})	35.9 V	36 V	36 V	36.1 V
MPP current (I_{MPP})	4.74 A	4.86 A	5 A	5,12 A
Open circuit voltage (V_{OC})	44.5 V	44.8 V	45 V	45.3 V
Short circuit current (I_{SC})	5.12 A	5.17 A	5.2 A	5.23 A
Temperature coefficient (P_{MPP})	–0.49 %/°C	–0.49 %/°C	–0.49 %/°C	–0.49 %/°C
Temperature coefficient (V_{OC})	–0.156 V/°C	–0.157 V/°C	–0.158 V/°C	–0.159 V/°C
Temperature coefficient (V_{OC})	–0.35 %/°C	–0.35 %/°C	–0.35 %/°C	–0.35 %/°C
Temperature coefficient (I_{SC})	2 mA/°C	2 mA/°C	2 mA/°C	2 mA/°C
Temperature coefficient (I_{SC})	0.04 %/°C	0.04 %/°C	0.04 %/°C	0.04 %/°C
Maximum system voltage	1,000 V	1,000 V	1,000 V	1,000 V
Values at NOCT[2]				
Nominal Power (P_{NOM})	157 W	161 W	166 W	170 W
Module efficiency	12,3%	12,6%	13%	13,4%
MPP voltage (V_{MPP})	33,1 V	33,2 V	33,2 V	33,4 V
MPP current (I_{MPP})	4,76 A	4,85 A	5,01 A	5,1 A
Open-circuit voltage (V_{OC})	41,1 V	41,4 V	41,8 V	42,2 V
Short-circuit current (I_{SC})	5,15 A	5,2 A	5,25 A	5,3 A
Module dimensions				
Dimensions (L × W × H)	1,580 × 808 × 45 mm	1,580 × 808 × 45 mm	1,580 × 808 × 45 mm	1,580 × 808 × 45 mm
Weight	15 kg	15 kg	15 kg	15 kg
Cell specifications				
Cells	monocrystalline	monocrystalline	monocrystalline	monocrystalline
Number of cells	72	72	72	72
Cell dimensions	125 × 125 mm	125 × 125 mm	125 × 125 mm	125 × 125 mm
Junction box specifications				
Dimensions (L × W × H)	143 × 140 × 29 mm	143 × 140 × 29 mm	143 × 140 × 29 mm	143 × 140 × 29 mm
Safety rating	IP 65	IP 65	IP 65	IP 65
DC plugs	MC IV	MC IV	MC IV	MC IV

[1] Standard Test Conditions, which are defined as follows: irradiance of 1,000 W/m² at a spectral density of AM 1.5 (ASTM E892). Cell temperature of 25 °C

[2] Normal Operating Cell Temperature: irradiance of 0,8kW/m², 20°C ambient temperature, windspeed of 1 m/s

Available from:

P 175/185M-TD-INT-en-0811