



CONERGY



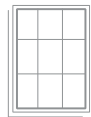
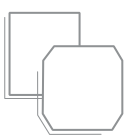
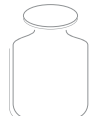
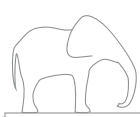

Conergy PH 230P – 260P



The Conergy P-series solar modules offer a high level of module output at an attractive price/performance ratio. They are equipped with efficient cells and have proven their worth in practical applications over the years. They are characterised by high yields and a long service life. Their production is certified in accordance with ISO 9001, ISO 14001 and OHSAS 18001 and meets the high quality standards of Conergy.

Benefits:

- | High salt corrosion and humidity resistance – complies with IEC 61701: Salt Mist Corrosion Testing
- | Anti-reflective and self cleaning surface reduces power loss from dirt and dust
- | Robust frame design allows short side frame mounting
- | Black frame version available

| | |
|---|---------------------------------------|
|  | Module type |
| | framed |
|  | Nominal output |
| | 230 W – 260 W |
|  | No. of cells |
| | 60 |
|  | Cell type |
| | polycrystalline |
|  | Module weight |
| | 19.5 kg / 43 lb |
|  | Maximum permissible load ¹ |
| | 5,400 Pa / 113 psf |
|  | Product warranty ² |
| | 10 years |



¹ In accordance with IEC 61215 Ed.2

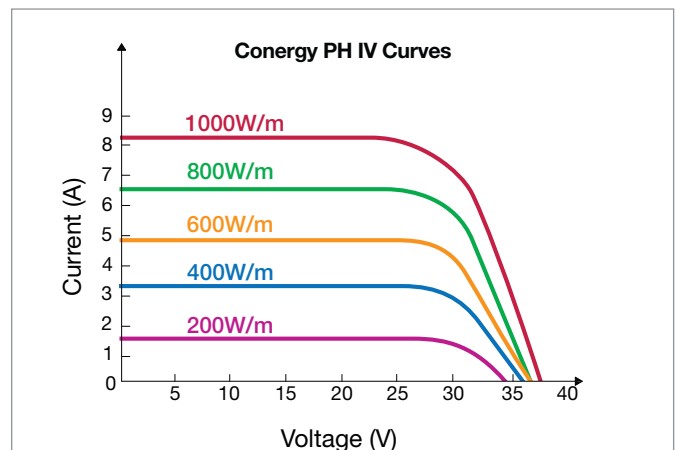
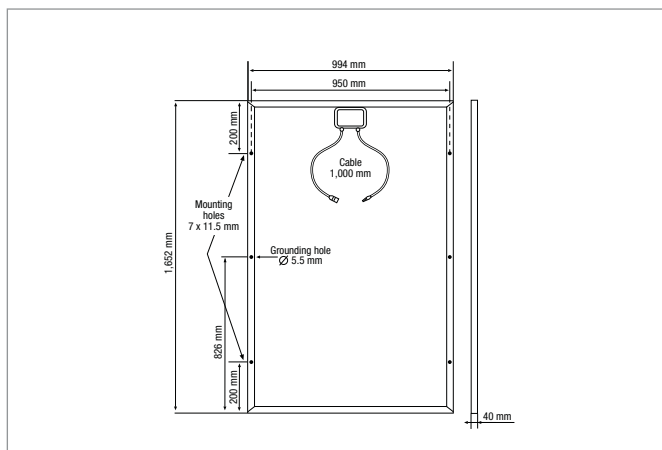
² According to Conergy AG's current warranty conditions



Conergy PH 230P – 260P

Mechanical specifications and additional data

| | |
|---|---|
| Module dimensions (L x W x H) ³ | 1,652 x 994 x 40 mm / 65.00 x 39.10 x 1.57 in |
| Cell dimensions | 156 x 156 mm / 6.14 x 6.14 in |
| No. of cells | 60 |
| Cell type | Polycrystalline cell; 3-busbar technology |
| NOCT ⁴ | 43°C ± 2°C |
| Maximum permissible load ⁵ | 5,400 Pa / 113 psf - standard mount zones 2,400 Pa / 50 psf - short side mount zones |
| Front cover type | Patterned tempered solar glass, 3.2 mm |
| Junction box | NingBo PV-MH260C, protection class IP 65, 139mm x 123mm x 25mm |
| Bypass diode | 15SQ045, 6 diodes |
| Cable | 12AWG PV wire (UL4703); 1000mm / 39.4 in length; 4 mm ² cross section |
| Plug type | MH4 |
| Frame material | Anodised aluminium |
| Module weight | 19.5 kg / 43 lb |
| Certification | In accordance with IEC/EN 61215 Ed. 2 and IEC/EN 61730, ISO 9001:2008, ISO 14001: 2004, OHSAS 18001: 2007, MCS, UL 1703 (USA and Canada) Fire safety class C |
| Material and workmanship warranty ⁶ | 10 years |
| Warranty ⁶ | Linear performance warranty year 1: ≥ 97 % of nominal power output year 25: ≥ 80 % of nominal power output |
| Maximum permissible system voltage | 1,000V |
| Maximum series fuse rating | 15A |
| Fire Resistance Rating | Class C |



³ Dimensional tolerance: +/-1.3mm

⁴ Nominal operating temperature of the cell at 800W/m² irradiation, 20°C ambient temperature, wind speed of 1 m/s

⁵ In accordance with IEC 61215 Ed.2

⁶ According to Conergy AG's current warranty conditions



Conergy PH 230P – 260P

Nominal electrical ratings under standard test conditions ^{7,8}

| Conergy PH | 230P | 235P | 240P | 245P | 250P | 255P | 260P |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Maximum power (P_{MPP}) | ≥230 W | ≥235 W | ≥240 W | ≥245 W | ≥250 W | ≥255 W | ≥260 W |
| Power sorting | -0%/+3% | -0%/+3% | -0%/+3% | -0%/+3% | -0%/+3% | -0%/+3% | -0%/+3% |
| Module efficiency | 14.00% | 14.30% | 14.62% | 14.90% | 15.20% | 15.50% | 15.80% |
| Maximum power voltage (V_{MPP}) | 27.78 V | 29.16 V | 29.54 V | 29.92 V | 30.30 V | 30.68 V | 31.05 V |
| Maximum power current (I_{MPP}) | 7.99 A | 8.06 A | 8.13 A | 8.20 A | 8.27 A | 8.33 A | 8.39 A |
| Open circuit voltage (V_{oc}) | 37.40 V | 37.60 V | 37.77 V | 37.98 V | 38.19 V | 38.40 V | 38.53 V |
| Short circuit current (I_{sc}) | 8.53 A | 8.56 A | 8.59 A | 8.62 A | 8.65 A | 8.69 A | 8.72 A |
| Temperature coefficient of P_{MPP} | -0.47%/°C | -0.47%/°C | -0.47%/°C | -0.47%/°C | -0.47%/°C | -0.47%/°C | -0.47%/°C |
| Temperature coefficient of V_{oc} , absolute | -0.130 V/°C | -0.130 V/°C | -0.130 V/°C | -0.131 V/°C | -0.131 V/°C | -0.132 V/°C | -0.133 V/°C |
| Temperature coefficient of V_{oc} , in percent | -0.34%/°C | -0.34%/°C | -0.34%/°C | -0.34%/°C | -0.34%/°C | -0.34%/°C | -0.34%/°C |
| Temperature coefficient of I_{sc} , absolute | 4.5 mA/°C | 4.5 mA/°C | 4.5 mA/°C | 4.5 mA/°C | 4.5 mA/°C | 4.5 mA/°C | 4.5 mA/°C |
| Temperature coefficient of I_{sc} , in percent | 0.05%/°C | 0.05%/°C | 0.05%/°C | 0.05%/°C | 0.05%/°C | 0.05%/°C | 0.05%/°C |

Nominal electrical ratings at 800 W/m², NOCT and AM 1.5 ⁸

| Conergy PH | 230P | 235P | 240P | 245P | 250P | 255P | 260P |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|
| Maximum power (P_{MPP}) | 172.50 W | 176.25 W | 180.00 W | 183.80 W | 187.50 W | 191.30 W | 195.00 W |
| Open circuit voltage (V_{oc}) | 34.12 V | 34.31 V | 34.50 V | 34.70 V | 34.89 V | 35.08 V | 35.20 V |
| Short circuit current (I_{sc}) | 7.18 A | 7.21 A | 7.23 A | 7.26 A | 7.28 A | 7.32 A | 7.34 A |
| Maximum power voltage (V_{MPP}) | 26.08 V | 26.42 V | 26.75 V | 27.06 V | 27.37 V | 27.73 V | 28.08 V |
| Maximum power current (I_{MPP}) | 6.61 A | 6.67 A | 6.73 A | 6.79 A | 6.85 A | 6.90 A | 6.95 A |

⁷ 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

⁸ Measurement uncertainty: +/-3%; Tolerance for V_{oc} , I_{sc} , V_{MPP} and I_{MPP} : +/-10%



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