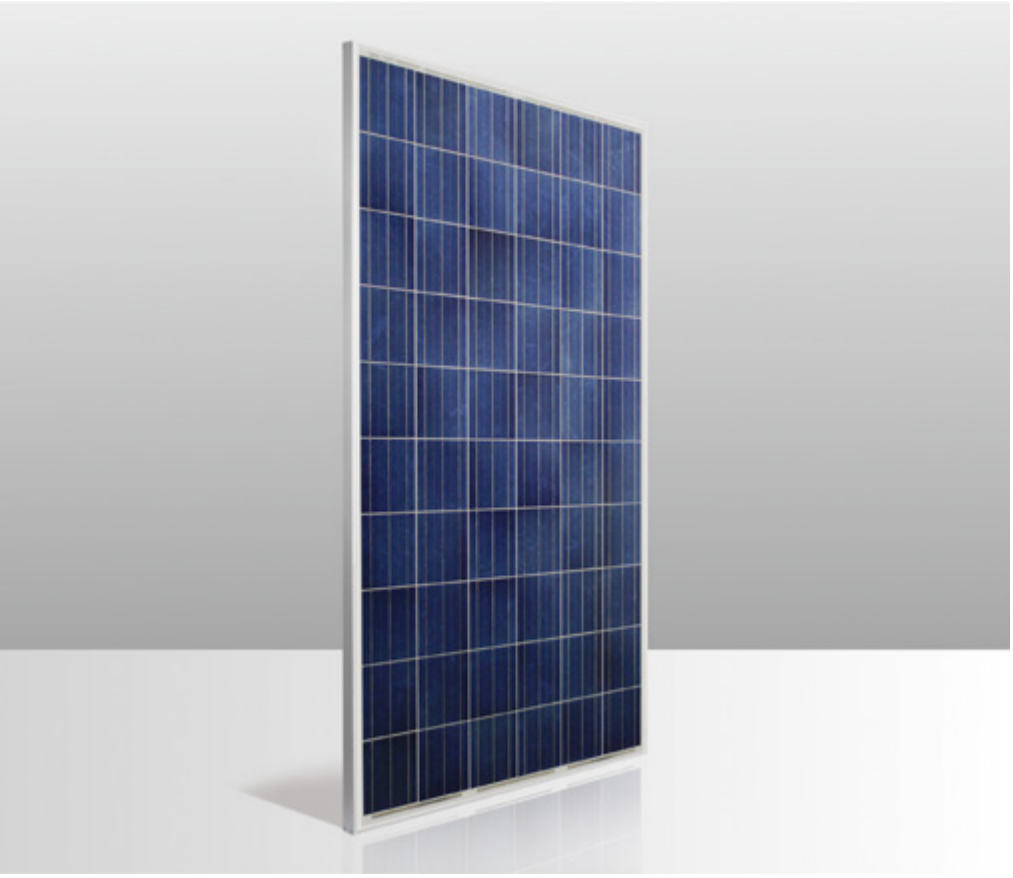
Conergy PJ 245P – 255P



Module type	**framed**
Nominal output	**245 W – 255 W**
No. of cells	**60**
Cell type	**polycrystalline**
Module weight	**19.1 kg**
Maximum permissible load [1]	**5,400 Pa**
Product warranty [2]	**10 years**

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:

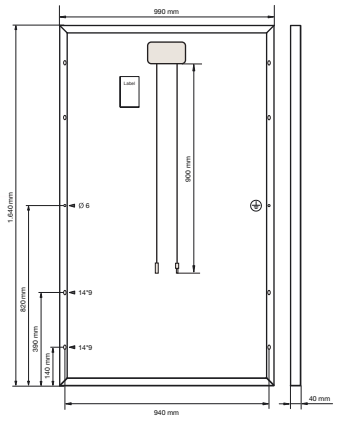
- Attractive price/performance ratio
- High module output
- 25-year linear performance warranty [2]
- Positive performance tolerance of –0%/+3%

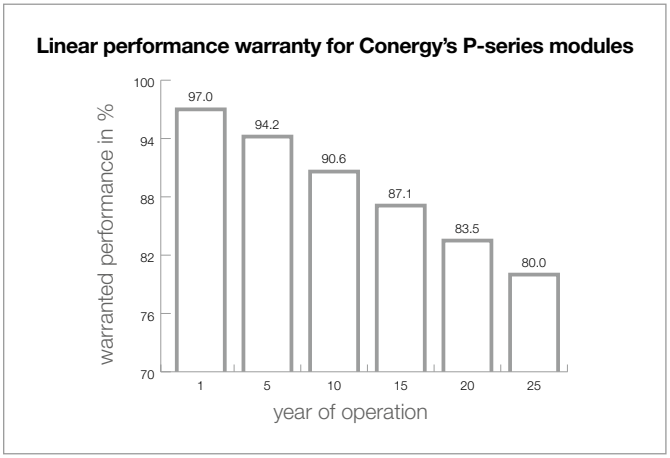
[1] In accordance with IEC 61215 Ed.2
[2] According to Conergy AG´s current warranty conditions

Conergy PJ 245P – 255P

Mechanical specifications and additional data

Module dimensions (L × W × H) [3]	1,640 × 990 × 40 mm
Cell dimensions	156 × 156 mm
No. of cells	60
Cell type	Polycrystalline cell; 3-busbar technology
NOCT [4]	45°C ± 2°C
Maximum permissible load [5]	5,400 Pa
Front cover type	Tempered solar glass, 3.2 mm
Junction box	Zhejiang Jiaming Tianheyuan JM825, protection class IP 67, 115.0 × 115.0 × 15.5 mm
Bypass diode	THY2550
Cable	Zhejiang Jiaming Tianheyuan 2Pfg 1169, 2x 900 mm length, 4 mm² cross section
Plug type	PV-JM601
Frame material	Anodised aluminium
Module weight	19.1 kg
Certification	In accordance with IEC 61215 Ed. 2 and IEC 61730, MCS, UL 1703, ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007
Product warranty [6]	10 years
Performance warranty [6]	Linear performance warranty year 1: >97% of nominal power output year 25: >80% of nominal power output
Maximum permissible system voltage	IEC: 1,000 V; UL: 600 V
Reverse current loadability (IR)	27 A
Maximum series fuse rating	20 A





[3] Dimensional tolerance: +/–1.3 mm
[4] Nominal operating temperature of the cell at 800 W/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 PJ 245P – 255P

Nominal electrical ratings under standard test conditions [7, 8]

Conergy PJ	245P	250P	255P
Maximum power (P_{MPP})	≥245 W	≥250 W	≥255 W
Power sorting	–0%/+3%	–0%/+3%	–0%/+3%
Module efficiency	15.09%	15.40%	15.71%
Maximum power voltage (V_{MPP})	29.7 V	29.9 V	30.1 V
Maximum power current (I_{MPP})	8.25 A	8.36 A	8.47 A
Open circuit voltage (V_{oc})	37.1 V	37.3 V	37.5 V
Short circuit current (I_{sc})	8.74 A	8.81 A	8.88 A
Temperature coefficient of P_{MPP}	–0.408%/°C	–0.408%/°C	–0.408%/°C
Temperature coefficient of V_{oc}, absolute	–0.108 V/°C	–0.109 V/°C	–0.110 V/°C
Temperature coefficient of V_{oc}, in percent	–0.292%/°C	–0.292%/°C	–0.292%/°C
Temperature coefficient of I_{sc}, absolute	3.9 mA/°C	4.0 mA/°C	4.0 mA/°C
Temperature coefficient of I_{sc}, in percent	0.045%/°C	0.045%/°C	0.045%/°C

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

Conergy PJ	245P	250P	255P
Maximum power (P_{MPP})	181 W	185 W	188 W
Open circuit voltage (V_{oc})	34.2 V	34.5 V	34.6 V
Short circuit current (I_{sc})	7.02 A	7.10 A	7.16 A
Maximum power voltage (V_{MPP})	27.5 V	27.9 V	28.0 V
Maximum power current (I_{MPP})	6.58 A	6.64 A	6.72 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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Conergy_PJ_245P-255P_TD_ENG_2013-04-22

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