

Conergy PowerPlus 235P – 255P



Conergy PowerPlus solar modules offer premium quality that pays for itself. They guarantee high system yields and reliable operation over the entire term, and under the most demanding environmental and weather conditions. They are manufactured to the highest quality standards and are characterised by many well thought through details and characteristics that set standards in this combination. For this why we offer our unique PremiumPlus warranty.

Benefits:

- | Premium quality for long service life
- | Up to 3 % more module output through positive performance tolerance
- | High yield security thanks to linear performance guarantee for 25 years
- | Made in Germany

	Module type
	framed
	Nominal output
	235 W – 255 W
	No. of cells
	60
	Cell type
	polycrystalline
	Module weight
	18.7 kg
	Max. permissible load ¹
	6,000 Pa
	Product warranty ²
	10 years



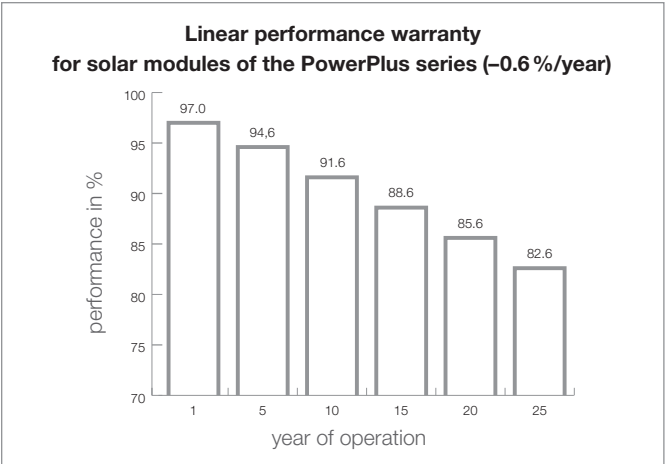
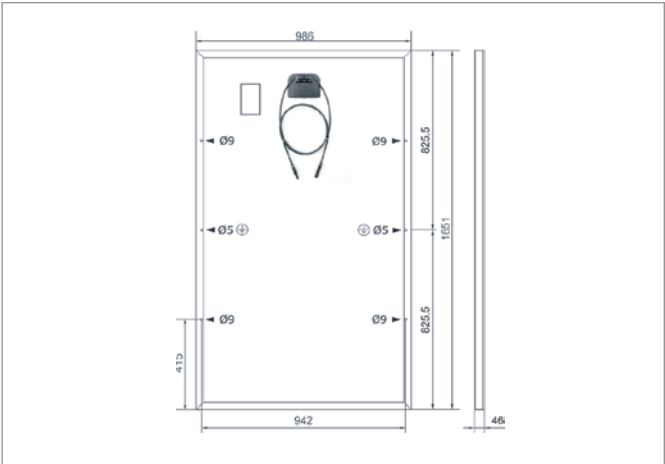
¹ In accordance with IEC 61215 Ed.2

² According to the current warranty conditions of Conergy AG

Conergy PowerPlus 235P – 255P

Mechanical specifications and additional data

Module dimensions (L × W × H) ³	1,651 × 986 × 46 mm
Cell dimensions	156 × 156 mm
Number of cells	60
Cell type	Polycrystalline cell, 3-busbar technology
NOCT ⁴	46° C ± 2° C
Max. permissible load ⁵	6,000 Pa
Front cover type	Micro-structured solar glass, 3.2 mm thickness
Junction box	Huber + Suhner RH3, protection class IP 67, 129 × 94 × 16 mm
Bypass-diode	MBRB1535ctpbf
Cable	2 × 1.000 mm Length, 4 mm ² cross-section
Plug type	Huber + Suhner: plug connector with integrated twist lock
Frame material	Anodised aluminium
Module weight	18.7 kg
Certification	IEC/EN 61215 Ed. 2, IEC/EN 61730, ISO 9001:2008, ISO14001:2004, OHSAS 18001, MCS, SC II
Product warranty ⁶	10 years
Performance warranty ⁶	Linear performance warranty year 1: >97 % of nominal power year 25: >82.6 % of nominal power
Max. permissible system voltage	1,000 V
Reverse current loadability (IR)	20 A
Max. series fuse rating	15 A



³ Dimensional tolerance: +/–1 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 the current warranty conditions of Conergy AG

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Electrical ratings under standard test conditions ^{7, 8}

Conergy PowerPlus	235P	240P	245P	250P	255P
Maximum power (P_{MPP})	≥ 235 Wp	≥ 240 Wp	≥ 245 Wp	≥ 250 Wp	≥ 255 Wp
Power sorting	-0 %/+3 %	-0 %/+3 %	-0 %/+3 %	-0 %/+3 %	-0 %/+3 %
Module efficiency	14.44 %	14.74 %	15.05 %	15.36 %	15.66 %
Maximum power voltage (V_{MPP})	29.76 V	29.99 V	30.22 V	30.46 V	30.70 V
Maximum power current (I_{MPP})	7.98 A	8.08 A	8.18 A	8.28 A	8.38 A
Open circuit voltage (V_{oc})	36.64 V	36.91 V	37.20 V	37.48 V	37.77 V
Short circuit current (I_{sc})	8.45 A	8.54 A	8.62 A	8.71 A	8.80 A
Temperature coefficient of (P_{MPP}), in percent	-0.42 %/°C	-0.42 %/°C	-0.42 %/°C	-0.42 %/°C	-0.42 %/°C
Temperature coefficient of (V_{oc}), absolute	-0.117 V/°C	-0.118 V/°C	-0.119 V/°C	-0.120 V/°C	-0.121 V/°C
Temperature coefficient of (V_{oc}), in percent	-0.32 %/°C	-0.32 %/°C	-0.32 %/°C	-0.32 %/°C	-0.32 %/°C
Temperature coefficient of (I_{sc}), absolute	4.99 mA/°C	5.04 mA/°C	5.09 mA/°C	5.14 mA/°C	5.19 mA/°C
Temperature coefficient of (I_{sc}), in percent	0.059 %/°C	0.059 %/°C	0.059 %/°C	0.059 %/°C	0.059 %/°C

Electrical ratings at 800 W/m², NOCT und AM 1,5 ⁸

Conergy PowerPlus	235P	240P	245P	250P	255P
Maximum power (P_{MPP})	176.20 W	179.82 W	183.46 W	187.21 W	190.83 W
Open circuit voltage (V_{oc})	33.68 V	33.93 V	34.20 V	34.46 V	34.72 V
Short circuit current (I_{sc})	6.84 A	6.92 A	6.98 A	7.05 A	7.11 A
Maximum power voltage (V_{MPP})	27.26 V	27.48 V	27.69 V	27.92 V	28.13 V
Maximum power current (I_{MPP})	6.46 A	6.54 A	6.63 A	6.71 A	6.79 A

⁷ Standard test conditions that are defined as follows: 1.000 W/m² irradiation at a spectral density of AM 1.5 and a cell temperature of 25° C

⁸ Measuring uncertainty (P_{MPP}): Tolerance for V_{oc} , I_{sc} , V_{MPP} and I_{MPP} : +/-10 %



Conergy Australia
Australian Head Office
Unit 1, 2/26 Scouts Crossing Rd,
Brendale QLD 4500
info@conergy.com.au

1300 551 303

www.conergy.com.au

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