

Conergy PowerPlus 245P – 265P



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.

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
- Potential Induced Degradation (PID) resistant









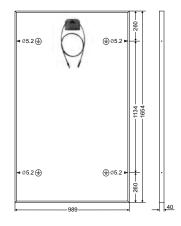


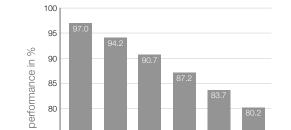
In accordance with IEC 61215 Ed.

 $^{^{\,2}\,}$ According to the current warranty conditions of Conergy Deutschland GmbH

Conergy PowerPlus 245P — 265P

Mechanical specifications and additional data						
Module dimensions (L \times W \times H) 3	1.654×989×40 mm					
Cell dimensions	156×156mm					
Number of cells	60					
Cell type	Polycristalline 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 thick					
Junction box	ZJRH Renhesolar GF 20 (IP 67), 90×77×16mm					
Bypass-diode	3 pieces, type PST4020					
Cable	2×1.000 mm length, 4 mm ² cross-section					
Plug type	ZJRH Renhesolar 05-6 (MC4 combinable)					
Frame material	Anodised aluminium					
Module weight	18.2 kg					
Certification	IEC/EN 61215 Ed. 2, IEC/EN 61730, ISO 9001:2008, ISO14001:2004, OHSAS 18001, MCS					
Product warranty ⁶	12 years					
Performance warranty ⁶	Linear performance warranty year 10: >90.7 % of nominal power year 25: >80.2 % of nominal power					
Max. permissible system voltage	1,000 V					
Reverse current loadability (IR)	20A					





year of operation

75

Linear performance warranty for solar modules of the PowerPlus series (-0,7 %/year)

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 Deutschland GmbH



Electrical ratings under standard test conditions 7,8								
Conergy PowerPlus	245P	250P	255P	260P	265P			
Maximum power (P _{MPP})	≥245Wp	≥250Wp	≥255Wp	≥260Wp	≥265Wp			
Power sorting	-0 %/+3 %	-0 %/+3 %	-0 %/+3 %	-0 %/+3 %	-0%/+3%			
Module efficiency	14.98%	15.28%	15.59%	15.89%	16.20%			
Maximum power voltage (V_{MPP})	30.12V	30.38V	30.64 V	30.90V	31.16V			
Maximum power current (I_{MPP})	8.20A	8.29A	8.39A	8.48 A	8.57 A			
Open circuit voltage (V_{oc})	36.78V	37.12V	37.45 V	37.78V	38.12V			
Short circuit current (I _{sc})	8.68A	8.76A	8.85 A	8.93 A	9.01 A			
Temperature coefficient of $(P_{\mbox{\tiny MPP}})$, in percent	-0.42 %/° C	-0.42 %/° C	-0.42 %/° C	-0.42 %/° C	-0.42 %/° C			
Temperature coefficient of ($V_{\rm oc}$), absolute	-0.118 V/° C	-0.119V/°C	-0.120V/°C	-0.121 V/° C	-0.122 V/° C			
Temperature coefficient of ($V_{\rm oc}$), in percent	-0.32 %/° C	-0.32 %/° C	-0.32 %/° C	-0.32 %/°C	-0.32 %/° C			
Temperature coefficient of (I_{sc}) , absolute	5.12mA/°C	5.17 mA/° C	5.22 mA/° C	5.27 mA/° C	5.31 mA/° C			
Temperature coefficient of ($I_{\rm sc}$), in percent	0.059 %/° C	0.059 %/° C	0.059 %/° C	0.059%/°C	0.05 %/° C			

Electrical ratings at 800 W/m², NOCT und AM 1,5 8								
Conergy PowerPlus	245P	250P	255P	260P	265P			
Maximum power (P _{MPP})	182.30W	186.00W	189.60W	193.40W	197.3W			
Open circuit voltage (\mathbf{V}_{oc})	34.94 V	35.26V	35.58V	35.89V	36.20 V			
Short circuit current ($I_{\rm sc}$)	6.94A	7.01 A	7.08A	7.14A	7.21 A			
Maximum power voltage (V _{MPP})	28.07 V	28.31 V	28.56V	28.80V	28.90 V			
Maximum power current (I _{MPP})	6.49A	6.57 A	6.64 A	6.72A	6.89A			

 $^{^{7}}$ 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 uncertainity (P_{mpp}): Tolerance for V_{cc}, I_{sc}, V_{MPP} and I_{MPP}: +/-10 %





Conergy Deutschland GmbH

Kaufmannshaus Bleichenbrücke 10 20354 Hamburg Germany

Telefon +49 (0)40 236 20 80 E-Mail info@conergy.de Available at:

