


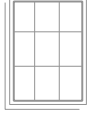
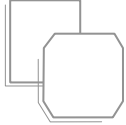

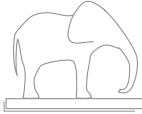


Conergy PX 285P - 305P



The Conergy PX 285P–305P solar modules offer a high level of module output at an attractive price/performance ratio. They are equipped with 72 efficient, polycrystalline 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 the ISO 9001, ISO 14001 and OHSAS 18001 international quality standards and meets the high quality standards of Conergy. Solar modules in the Conergy P-series are also available with monocrystalline and polycrystalline cells in other powerclasses and different module dimensions.

Benefits:

- | Attractive price/performance ratio
- | High module output
- | Especially recommended for large projects/ free field installations

	Nominal output
	285W - 305W
	No. of cells
	72
	Cell type
	polycrystalline
	Module weight
	27kg
	Maximum permissible load*
	2,400Pa
	Warranty**
	10 years
	Module type
	framed

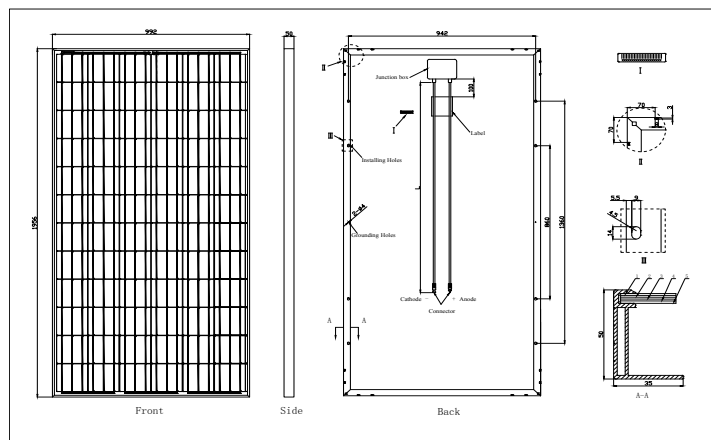


* In accordance with IEC 61215 Ed.2
 ** According to Conergy AG's current warranty conditions.

Conergy PX 285P - 305P



Mechanical specification	
Module dimensions (L x W x H):	1,956 × 992 × 50mm
Cell dimensions:	156 x 156mm
No. of cells:	72
Cell type:	polycrystalline cell; 3- busbar technology
NOCT*:	45 °C ± 2°C
Maximum permissible load**:	2,400Pa
Front cover type:	tempered solar glass with 4mm thickness
Junction box:	PV- JK01A; Protection class IP 65; 152 x 125 x 25mm
Cable:	2 × 900mm length, 4 mm ² cross-section
Plug type:	PV- JK00M (MC4 comparable)
Frame material	Anodised aluminium
Module weight	27kg
Certification	IEC/EN 61215 Ed. 2, IEC/EN 61730, ISO 9001:2008, ISO 14001:2004, OHSAS 18001: 2007, SK II, MCS
Product warranty ***	10 years
Power warranty ***	linear performance warranty year 1: > 97.5% of nominal power output year 25: > 80% of nominal power output
Maximum permissible system voltage	1,000V
Reverse current loadability (IR)	20 A



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

** In accordance with IEC 61215 Ed.2

*** According to Conergy AG's current warranty conditions.

Conergy PX 285P - 305P



Electrical ratings under standard test conditions*					
Conergy PX	285P	290P	295P	300P	305P
Nominal output (P _{nom})	≥ 285P	≥ 290P	≥ 295P	≥ 300P	≥ 305P
Power class range	-0%/+3%	-0%/+3%	-0%/+3%	-0%/+3%	-0%/+3%
Module efficiency (P _{nom})	14.69%	14.95%	15.20%	15.46%	15.72%
Voltage at maximum performance (U _{mpp})**	36.00V	36.40V	36.80V	37.20V	37.40V
Current at maximum performance (I _{mpp})**	7.92A	7.97A	8.02A	8.07A	8.16A
Off-load voltage (U _{oc})**	44.70V	44.90V	45.20V	45.40V	45.60V
Short-circuit current (I _{sc})**	8.85A	8.89A	8.95A	8.98A	9.05A
Temperature coefficient (P _{mpp})	-0.45%/°C	-0.45%/°C	-0.45%/°C	-0.45%/°C	-0.45%/°C
Temperature coefficient (U _{oc}), absolute	-0.121V/°C	-0.121V/°C	-0.122V/°C	-0.123V/°C	-0.123V/°C
Temperature coefficient (U _{oc}), in percent	-0.27%/°C	-0.27%/°C	-0.27%/°C	-0.27%/°C	-0.27%/°C
Temperature coefficient (I _{sc}), absolute	4.43mA/°C	4.45mA/°C	4.48mA/°C	4.49 mA/°C	4.53 mA/°C
Temperature coefficient (I _{sc}), as a percentage	0.05%/°C	0.05%/°C	0.05%/°C	0.05%/°C	0.05%/°C

Electrical rating at 800W/m², NOCT and AM 1.5

Power (P _{mpp})	207.33W	211.08W	214.85W	218.66W	222.35W
Off-load voltage (U _{oc})	40.36V	40.55V	40.83V	41.02V	41.21V
Short-circuit current (I _{sc})	7.15A	7.18A	7.23A	7.26A	7.31A
Voltage (U _{mpp})	32.40V	32.78V	33.16V	33.53V	33.72V
Current (I _{mpp})	6.40A	6.44A	6.48A	6.52A	6.59A

* 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

** Measuring tolerance STC: +/-3%.



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