

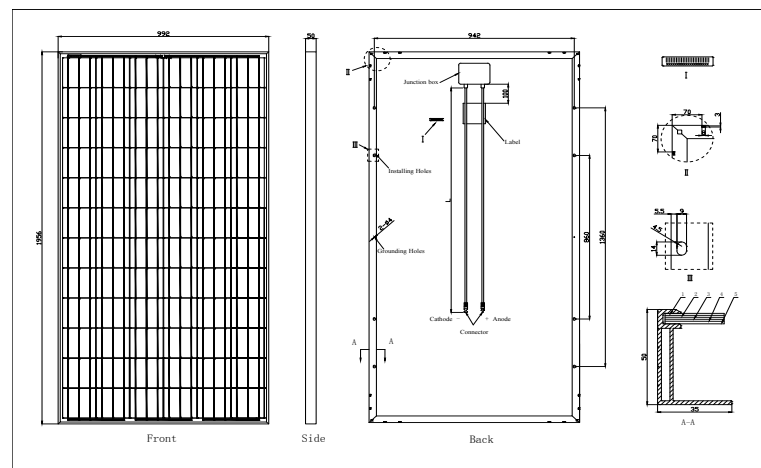
Conergy PX 285P - 305P



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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	1,000 V
Reverse current loadability (IR)	20A



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

* 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.

* 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%.