

156P60 270-280W PHOTOVOLTAIC MODULES POLICRYSTALLINE

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PROPERTIES

Photovoltaic module manufactured with 60 high efficiency polycrystalline cells for grid-connected or stand-alone plants.

WARRANTY

90% rated power output for 10 years
80% rated power output for 25 years
10 year product warranty

CERTIFICATES

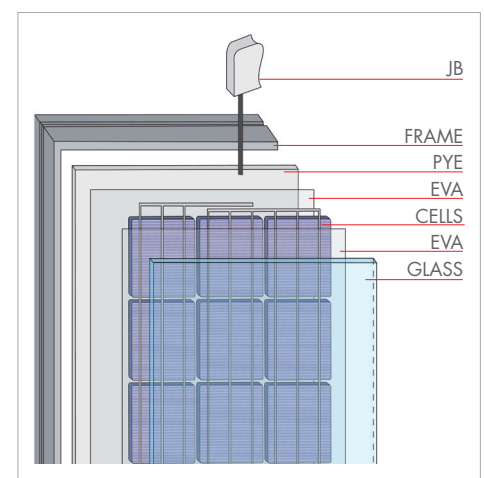
Modules certified according to: IEC 61215 ed.II
Modules certified according to: IEC 61730-1; IEC 61730-2
Conformity to the requirements: V CONTO ENERGIA DM 05/07/2012
ART. 5 COMMA 2 MADE IN EU

STRUCTURAL PROPERTIES

Size	1640mmx992 mm
Weight	19 kg
Cells type	60 polycrystalline silicon cells with high efficiency
Ribbon	Bus bars of copper, tin and silver
Front Glass	A/R tempered glass, 3,2 mm thickness
Encapsulation	EVA (Ethilene-vinyl acetate), UV stabilised
Backsheet	Multilayer polyester-based
Frame	Aluminium alloy EN AW-6060T6 anodized 15 microns, thickness 35 or 40 mm
Junction box	Ip 67 waterproof junction box fitted with 3 bypass diodes for effettive protection against "hot spots"
Connectors	2 cables long 1 mt section 4 mm with Tyco or MC4 connector

CONDITION OF USE

Typical application	24 V DC
Maximum voltage	1000 V DC
Operating temperature	-40°C+85°C
Impact resistance to hail	Ø 25 mm at 80 km/h
Wind	197 km/h max
Snow	551 kg/mq max
Application class	A, safety class II



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ELECTRICAL CHARACTERISTICS*

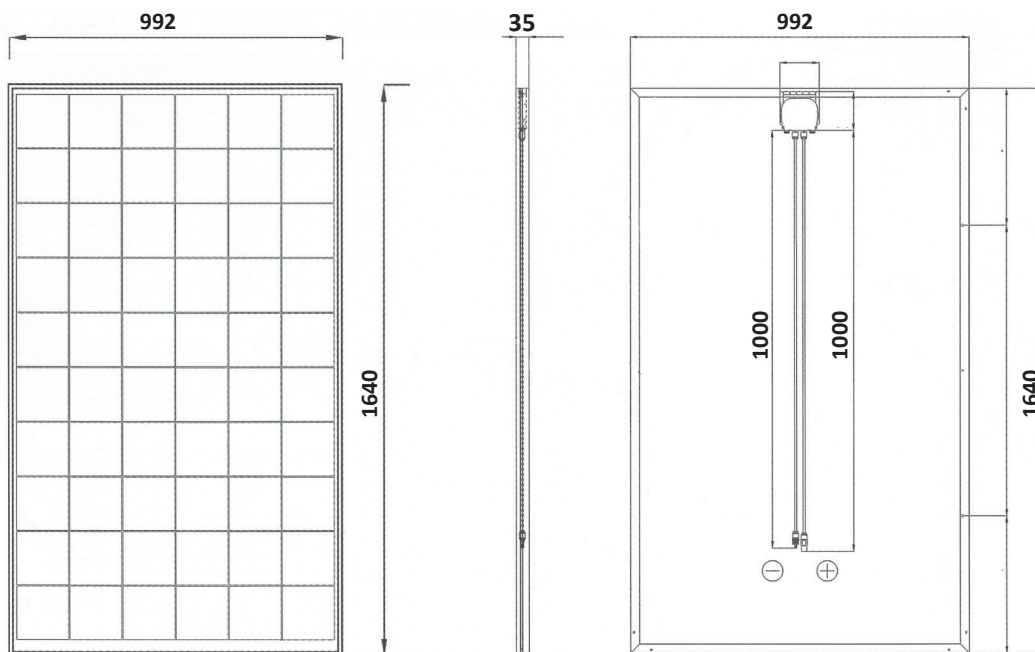
Model	SOL270 P	SOL275 P	SOL 280 P
Maximum power at STC (P Max)	270 Wp	275 Wp	280 Wp
Power tolerance	0%/+5 W	0%/+5 W	0%/+5 W
Optimum operating voltage (Vpm)	31,40 V	31,87 V	31,69V
Optimum operating current (Imp)	8,63 A	8,72 A	8,84 A
Open-circuit voltage (Voc)	38,60 V	38,70 V	38,78 V
Short-circuit current (Isc)	9,13A	9,21 A	9,32 A
Module efficiency	16,60%	16,90%	17,21%

*measurement conditions: the electrical specifications are measured under an irradiance level of 1000 W/mq, 1,5 Air mass Spectrum, cell temperature of 25°C.

OPERATING CHARACTERISTICS

		U.M.
Voltage temperature coefficient (Voc)	- 0,33%	°C
Power temperature Coefficient (Pmp)	- 0,40%	°C
Current temperature coefficient (Isc)	+ 0,05%	°C
NOCT (Nominal Operating Cell Temperature)	43±2	°C

TECHNICAL DRAWING



The information shown in the sheet may change without notice as the result of technical updating.

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