



PHOTOVOLTAIC MODULE PX 60

MODULE

The photovoltaic module **SOLARDAY PX60** is composed of 60 solar cells in multicrystalline silicon, 156mm x 156 mm size, connected in series.

The Array of solar cells is encapsulated between two sheets of EVA (Ethylen Vinyl Acetate), inserted, themselves, between a front tempered glass of the thickness of 4mm, and one rear sheet in PVF/PE/PVF, a particular multilayer film with excellent electrical, chemical and mechanical properties, which assures both the protection of the rear part from accidental hits and the perfect adhesion with EVA.



The used glass offers the necessary protection from the atmospheric agents and, thanks to a particular textured surface, optimizes the collection of the solar light on the cells.

The vacuum-sealed pressing, at 150°C, assures the perfect airtight sealing of the module, protecting the high performances of the product over the years.

The frame is realized with an anodized aluminium profile that allows an **easy assembling of the module** on the support structures.

On the back there is a junction box with protection degree IP65, with bypass diodes, cables and polarized connectors. This junction box **gives the best protection warranties** both to the electrical connections and to the module for "hot-spot" damages.



QUALIFICATION & CERTIFICATION

Solarday module PX60 fulfils the requirements of the following directives:

- IEC 61215 -Ed. 2
 - SC II - IEC 61730
- } = **CE**
- TÜV ID 0000020717



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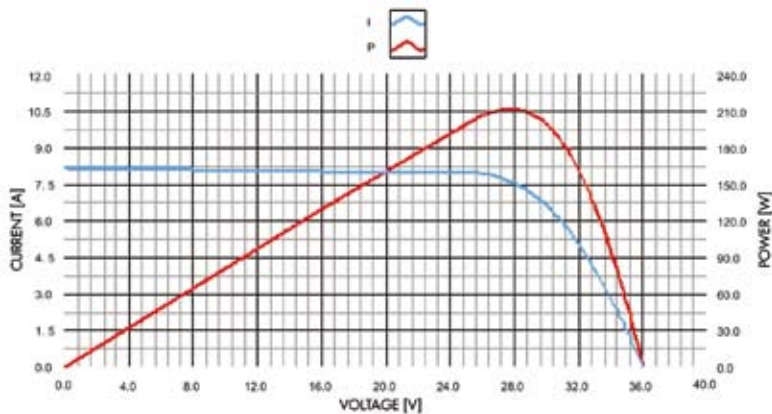
MECHANICAL SPECIFICATIONS

PHOTOVOLTAIC MODULE	WITH FRAME	FRAMELESS
Length	1,665 mm	1,657 mm
Width	1,005 mm	997 mm
Thickness	43 mm	5 mm
Weight	22 kg.	19.5 kg.

PHOTOVOLTAIC SOLAR CELLS	MULTICRYSTALLINE SILICON
Dimensions	156 mm x 156 mm
Quantity	60
Layout	6 x 10
Front glass	Glass with low iron contents
Glass Thickness	4 mm
Cell encapsulation	E.V.A. (Ethylene Vinyl Acetate)
Back	Multilayer Tedlar/ Polyester/ Tedlar
Frame	Extruded Anodised Aluminium
Junction Box	1 box IP65 with 3 bypass diodes
Cables and Connectors	Unipolar Cable 4 mm ² , Polarized connectors included

ELECTRICAL SPECIFICATIONS

	PX60-210	PX60-220	PX60-230
Module class peak power ($\pm 5Wp$) Pmax	210 W	220 W	230 W
Rated Voltage	Vmpp 28,3 V	28,5 V	29,0 V
Rated current	Impp 7,42 A	7,72 A	7,93 A
Open circuit voltage	Voc 36,9 V	37,1 V	37,7 V
Short-circuit current	Isc 8,05 A	8,29 A	8,54 A
Maximum system voltage	1000 V	1000 V	1000 V
Module Efficiency	12,7%	13,5%	13,8%
Cell efficiency	14,6%	15,2%	15,6%



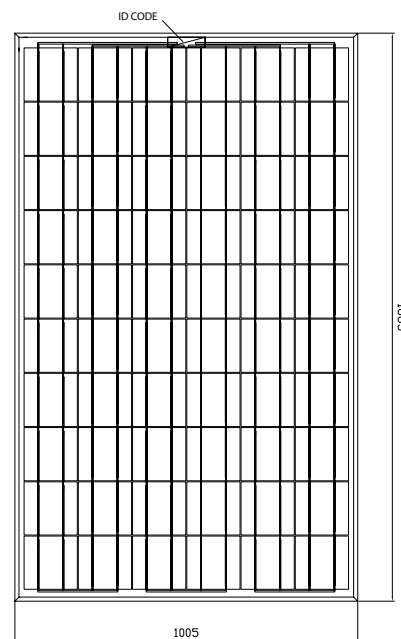
- Temperature coefficient of open circuit voltage - 125mV/°C
- Temperature coefficient of short circuit 4mA/°C
- Temperature coefficient of power - 0,43%/°C
- NOCT 48°C

The values refer to the standard test conditions.
(STC: irradiation 1,000 W/m² AM 1.5., temperature 25°C)

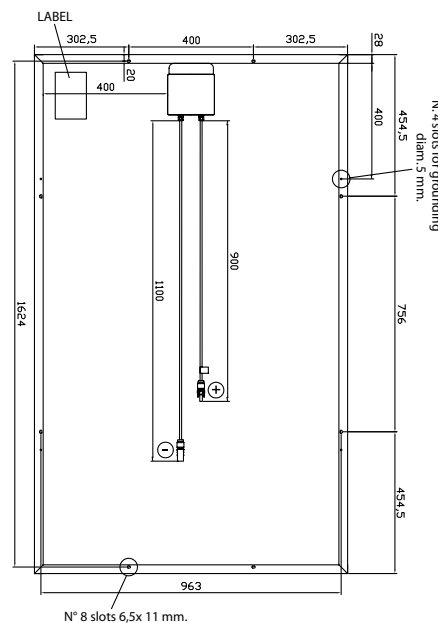
- Temperature range: from -40°C to +85°C
- Maximum surface load capacity: more than 540 Kg/m²
- Hail impact: diameter of 28mm with impact speed of 86 km/h
- TÜV CERTIFICATE of the product according to the international normatives IEC 61215, II edition.
- TÜV CERTIFICATE for the production process.
- Solarday assures that the module's output will still be:
90% in 10 years and 80% in 25 years.
- 10 years warranty for manufacturing defects

The specifications are subject to change without notice

FRONT



BACK



PROFILE

