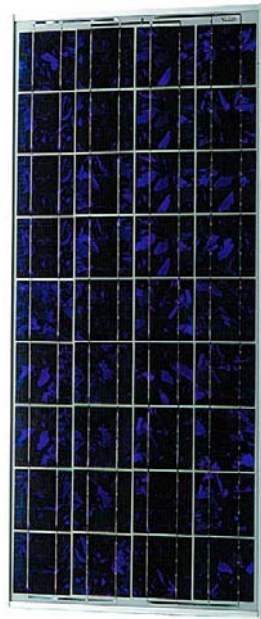




PHOTOWATT PWX850 - 12V

PHOTOVOLTAIC LARGE SCALE POWER MODULE – JBOX

POLYCRYSTALLINE MODULE - LARGE SCAL POWER



APPLICATIONS
- Telecommunications
- Cathodic protection
- Water pumping
- Signaling
- Rural electrification
- Private residences
- Commercial buildings
- Grid connected

- Large scale power module
- 4x9 polycrystalline 5 inch cells (125,50 x 125,50 mm)
- **Product warranty : 5 years***
- **Efficiency warranty : 25 years***
- **Quality insurance : ESTI (61215), ISO 9001...**

The PWX850 is designed with the double glass technology, with an optimum configuration that fulfils the most demanding PV applications. That type of heavy-duty construction ensures the product electrical isolation and high durability, including in marine and tropical environments.

The PWX850 module uses Photowatt's multicrystalline technology. The solar cells are individually characterized and electronically matched prior to interconnection. Encapsulation beneath high transmission tempered glass is accomplished using an advanced, UV resistant thermal setting plastic. The encapsulant, ethylene vinyl acetate, cushions the solar cells within the laminate and protects the cells from etching. The PWX500 benefits from excellent mechanicals properties and reliability thanks to its glass both sides.

The self-supporting frame made from anodised aluminium was designed to allow it to be easily mounted either from the front or from the rear.

This module is available in glass / tedlar technology with the PW850 which minimize the weight while providing the same electrical datas.

For building integration, this module can be delivered without aluminium frame. Please contact us for further details.

PACKING INFORMATION		
Module weight	Kg	13
Module size	mm	1272 x 556 x 39
Packing configuration	modules	2 per cartons
Packing size	mm	1310 x 600 x 60
Modules packed weight	Kg	16
Maximum pallet size (34 modules)	mm	1400 x 880 x 740
Maximum pallet weight	Kg	324



PWX850	Configuration 12 V			
Typical power	W	75	80	85
Minimum power	W	70,1	75,1	80,1
Voltage at typical power	V	17	17,3	17,6
Current at typical power	A	4,4	4,6	4,8
Short circuit current	A	4,7	5	5,2
Open circuit voltage	V	21,5	21,6	21,6
Maximum system voltage	V	770V DC		
Temperature coefficient		$\alpha = +1,46 \text{ mA/}^\circ\text{C}$; $\beta = -79 \text{ mV/}^\circ\text{C}$; $\gamma \text{ P/P} = -0,43 \text{ \% /}^\circ\text{C}$		
Power specifications at 1000 W/m ² : 25 °C : AM 1,5				

* According to general warranty conditions

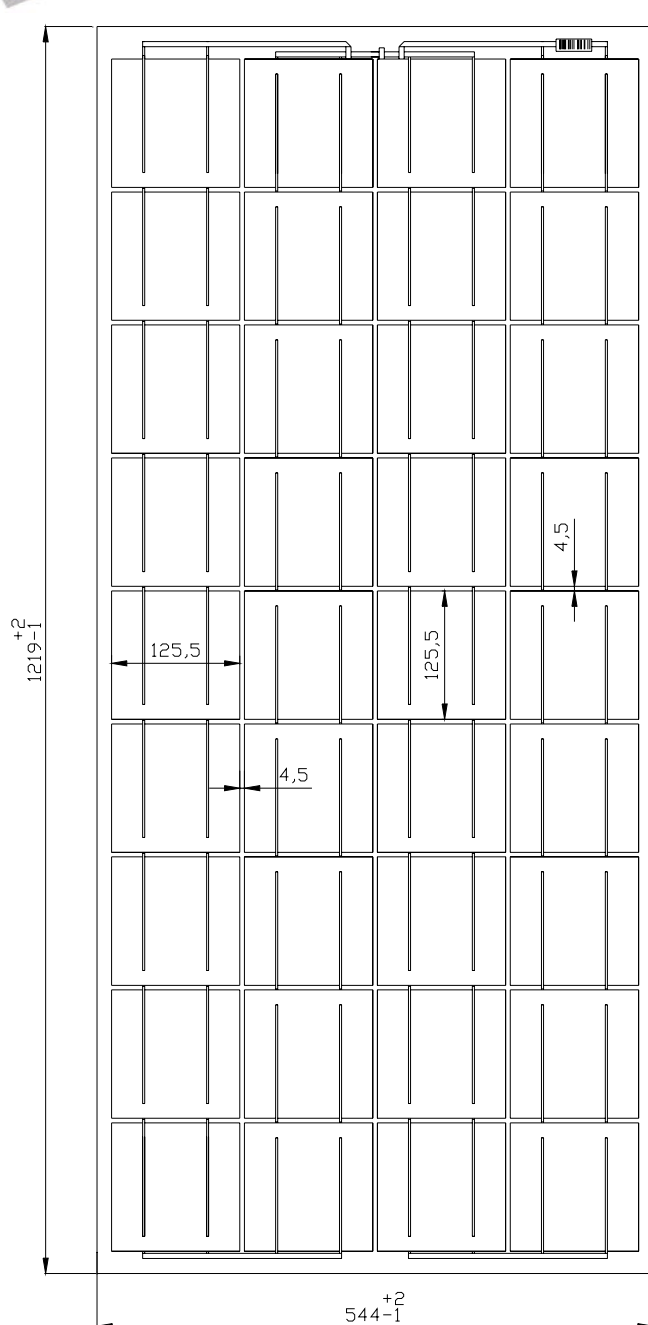


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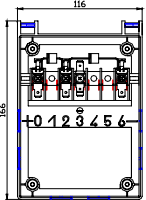
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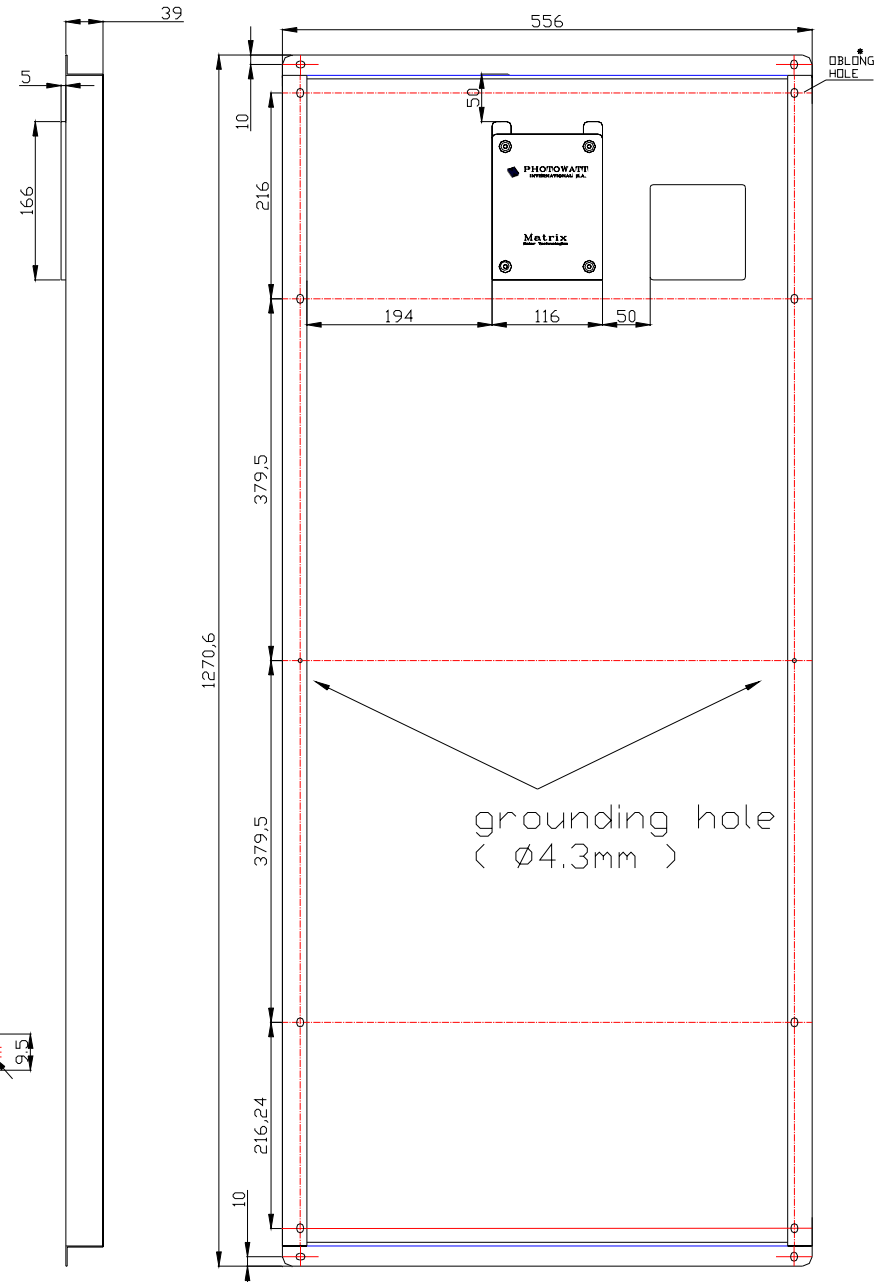
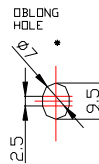
JBOX DETAILS



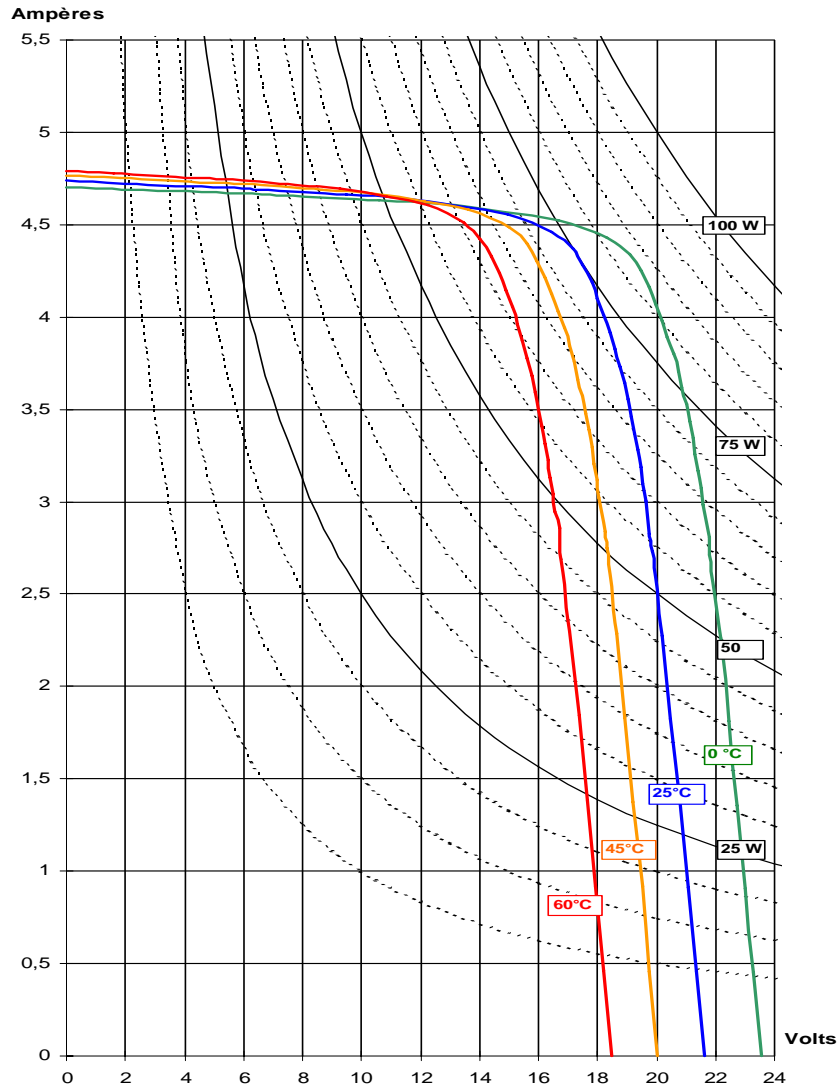
The universal junction box accepts cables from 1,5 mm² to 4 mm² (AWG 11 to AWG16)



Module protected by 2 by-pass diodes (1 by pass per 18 cells)



$I=F(V)$ à $E=1 \text{ kW/m}^2$, $AM=1,5$ en fonction de la température



$I=F(V)$ à $T = 25^\circ\text{C}$ en fonction de l'irradiance E (kW / m^2), $AM 1,5$.

