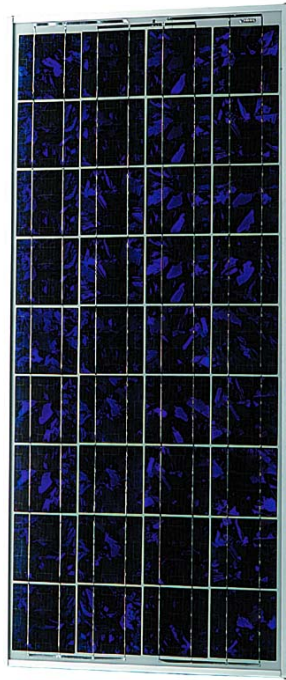


PHOTOWATT PW850 - 12V

PHOTOVOLTAIC MODULE – JBox (or Cables)



APPLICATIONS

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

- 4x9 polycrystalline 5 inch cells (125,50 x 125,50 mm)
- **Product warranty : 5 years***
- **Efficiency warranty : 25 years***
- **Quality insurance :** ESTI (61215), TÜV (Safety Class II), PVGap, ISO 9001...

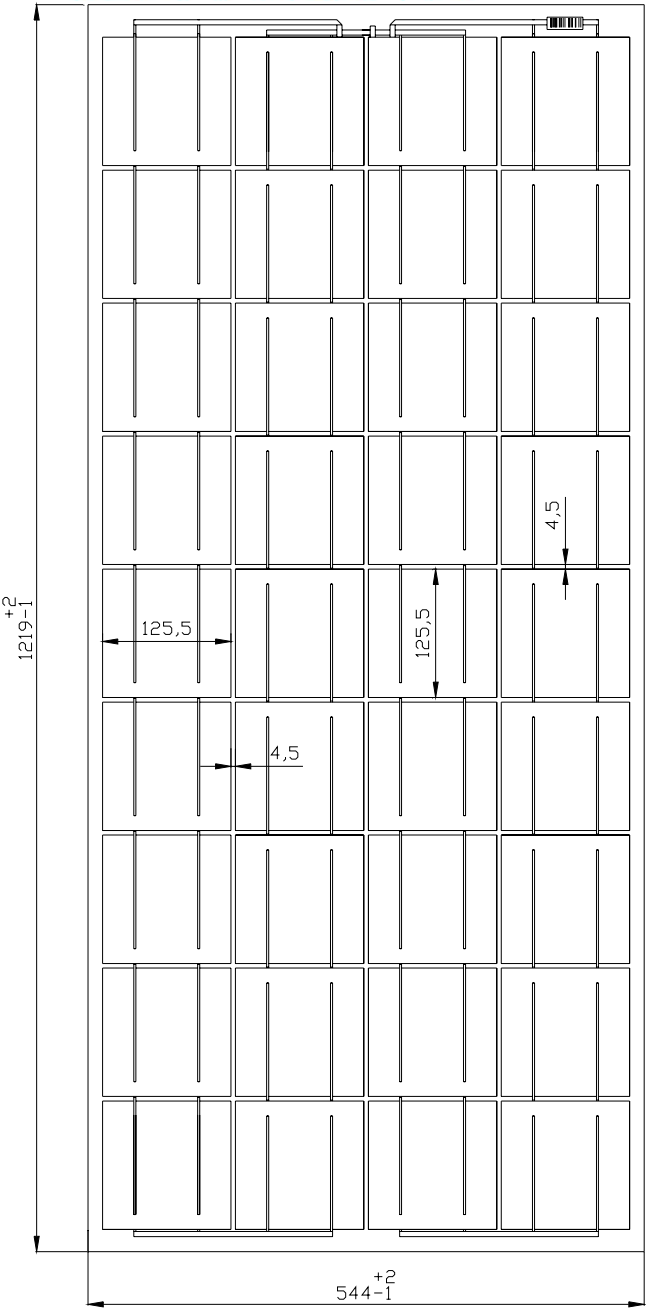
PACKING INFORMATION

Module weight	Kg	7,8
Module size	mm	1237 x 556 x 45
Packing configuration	modules	2 per cartons
Packing size	mm	1280 x 600 x 70
Modules packed weight	Kg	18,5
Maximum pallet size (24 modules)	mm	1400 x 1000 x 740
Maximum pallet weight	Kg	232

The PW850 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 protect the cells from etching. The rear surface of the module is completely sealed from moisture and mechanical damage by a continuous high strength polymer sheet.

PW850		12 V Configuration			
Typical power	W	55	60	65	70
Minimum power	W	50,1	55,1	60,1	65,1
Voltage at typical power	V	16,4	16,5	16,7	16,8
Current at typical power	A	3,35	3,6	3,9	4,2
Short circuit current	A	3,8	4,1	4,3	4,5
Open circuit voltage	V	20,9	21	21,2	21,4
Maximum system voltage	V	770V DC			
Temperature coefficient		$\alpha = +1,46 \text{ mA}/^\circ\text{C} ; \beta = -79 \text{ mV}/^\circ\text{C} ; \gamma \text{ P/P} = -0,43 \% /^\circ\text{C}$			
Power specifications at 1000 W/m² : 25°C : AM 1,5					

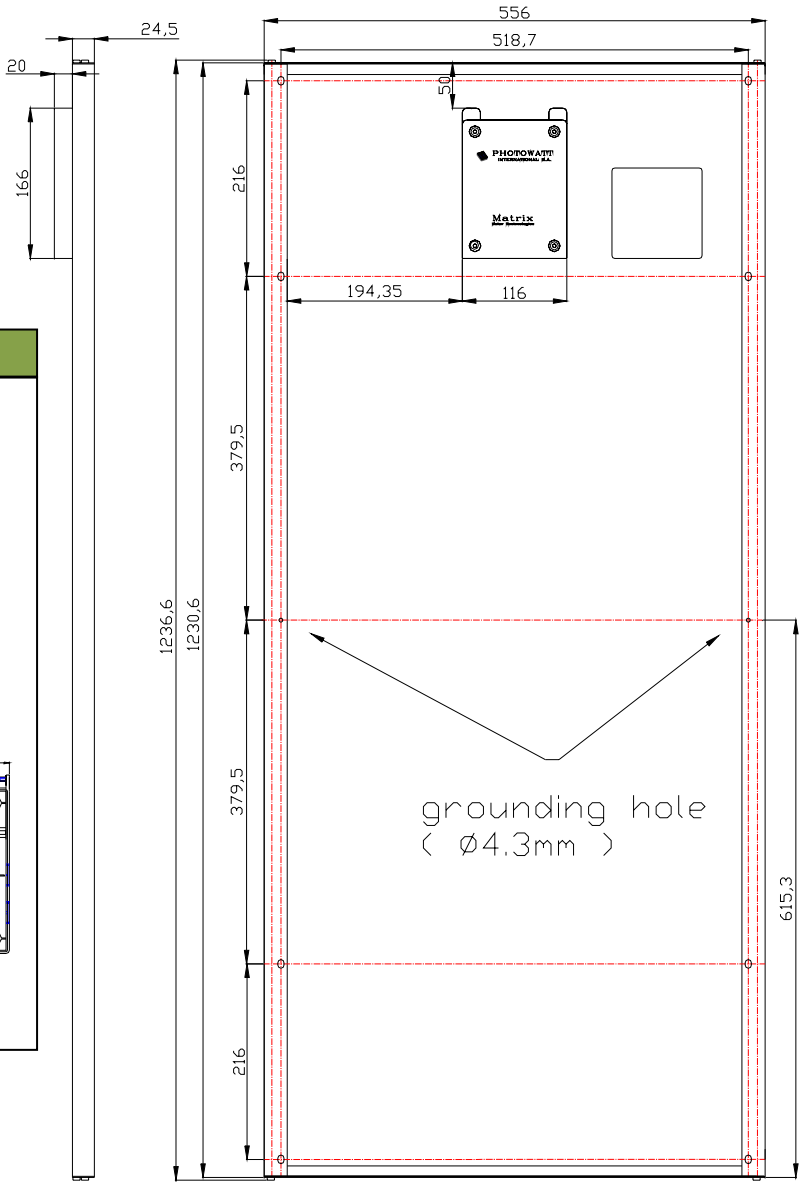
* According to general warranty conditions



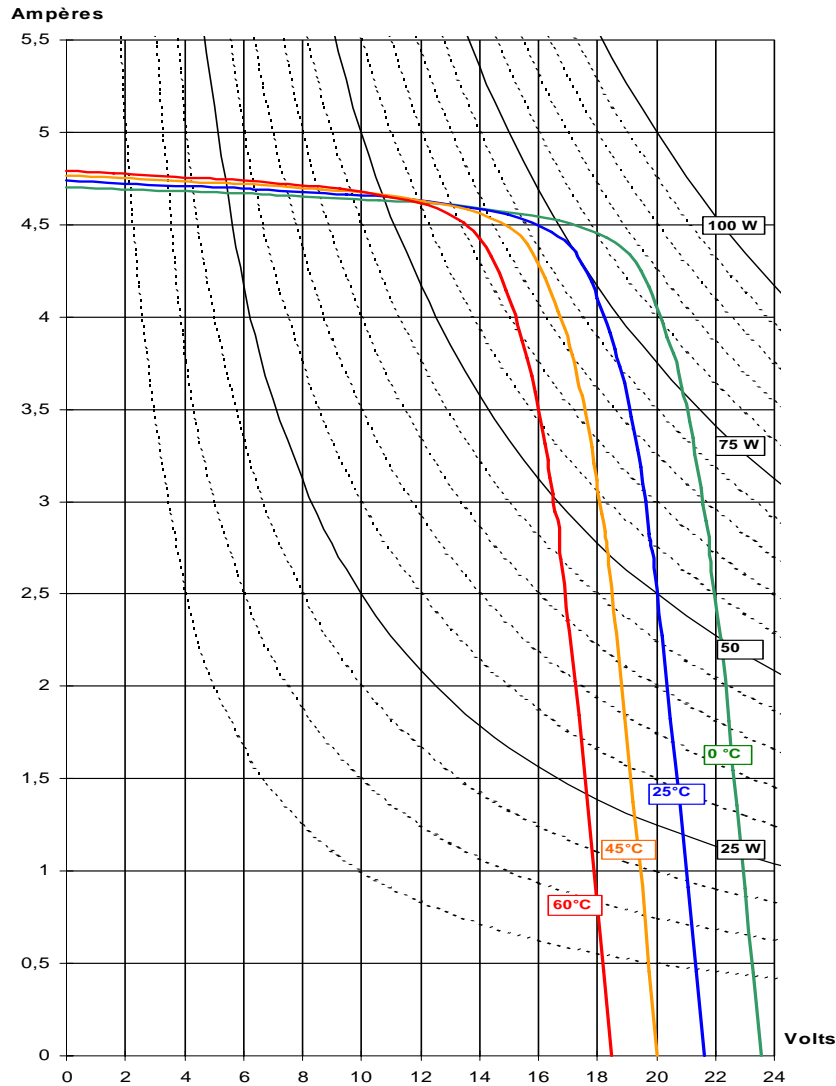
JBOX DETAILS

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 kW/m², AM=1,5 en fonction de la température



I=F(V) à T = 25°C en fonction de l'irradiance E (kW / m²), AM 1,5.

