

PHOTOWATT PW6-110 Wp - 12V PHOTOVOLTAIC MODULE – Cables & JBox



APPLICATIONS

- Grid connected large scale system
- Power plants
- Buildings integration
- Water pumping
- Telecommunications
- Rural electrification

- High efficiency modules
- 4x9 6' inch cells (150 x 150 mm)
- Reinforced anodised aluminium frame
- **Product warranty : 5 years***
- **Efficiency warranty : 25 years***
- **Power tolerance : +/- 5Wp**
- **Quality certifications : ESTI (61215), ISO 9001...**



PACKING INFORMATION

Module weight	Kg	12,5
Module size with cables	mm	1424 x 655 x 38
Module size with Jbox	mm	1424 x 655 x 45
Packing configuration	modules	2 per carton
Packing size	mm	1565 x 675 x 100
Modules packed weight	Kg	27
Maximum pallet size (26 modules)	mm	1600 x 752 x 1450
Maximum pallet weight (26 modules)	Kg	366

The PW6-110 is Photowatt's new born high efficiency module. Easy to handle, this module delivers a maximum power with an optimal size.

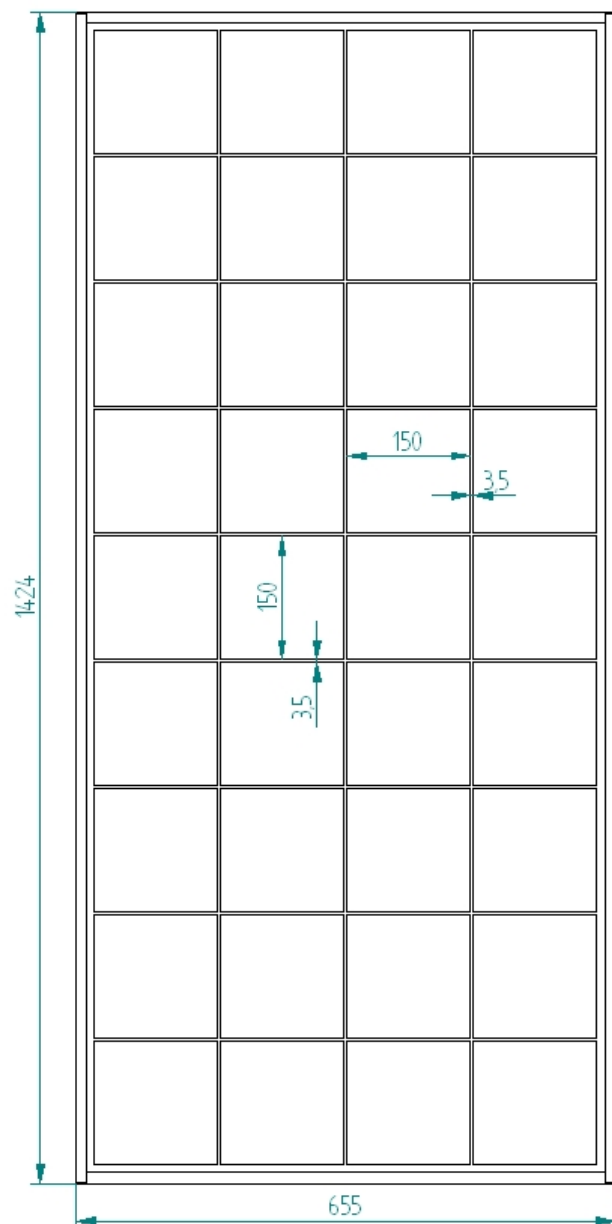
The PW6-110 module uses Photowatt's multicrystalline technology. The solar cells are individually characterized and electronically matched prior to interconnection. Encapsulation is realised between the high transmission tempered glass and the resistant thermal setting Tedlar®. The encapsulant, ethylene 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.

With a tolerance improvement to +/-5 Wp, the PW6-110 module ensures more power homogeneity in installations, and a financial investment corresponding to the real power produced.

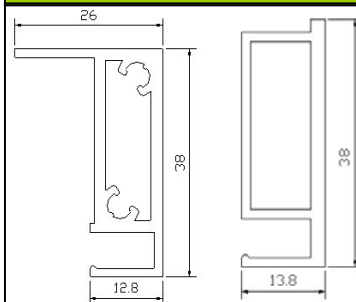
ELECTRICAL CHARACTERISTICS

PW6-110		12 V Configuration		
Typical power	W	90	100	110
Minimum power	W	85	95,1	105,1
Voltage at typical power	V	16,4	16,7	17,2
Current at typical power	A	5,5	6,0	6,4
Short circuit current	A	6,1	6,5	6,9
Open circuit voltage	V	21,1	21,5	21,7
Maximum system voltage	V	1000V DC		
Temperature coefficient		a = +2,085 mA/°C ; β = -79 mV/°C ; γ P/P = - 0,43 % /°C		
Power specifications at 1000 W/m² : 25°C : AM 1,5				

* According to general warranty conditions



FRAME DETAILS

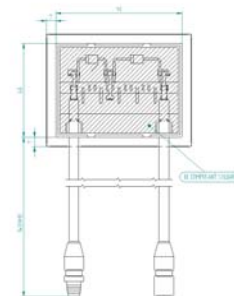


The mounting frame
screw not passing
beyond the frame

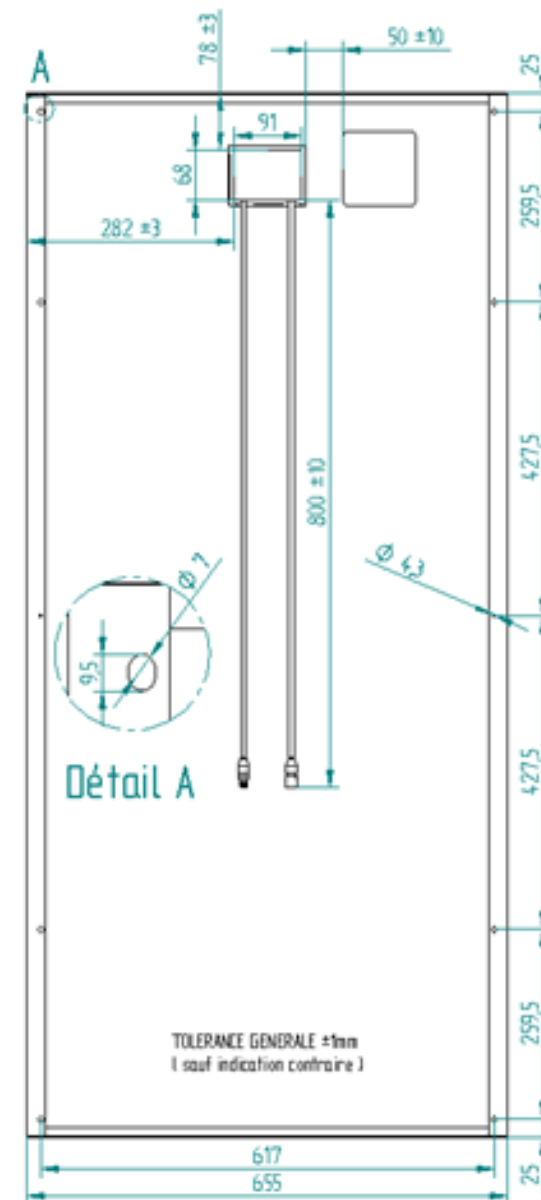
CABLES DETAILS

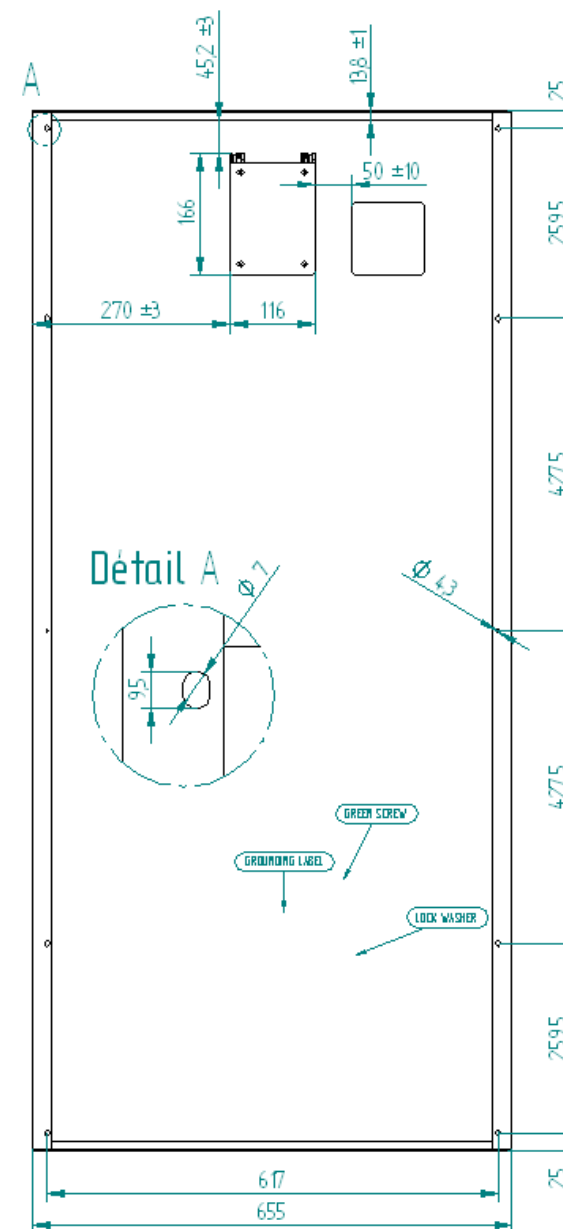


Ø 4 mm² cables

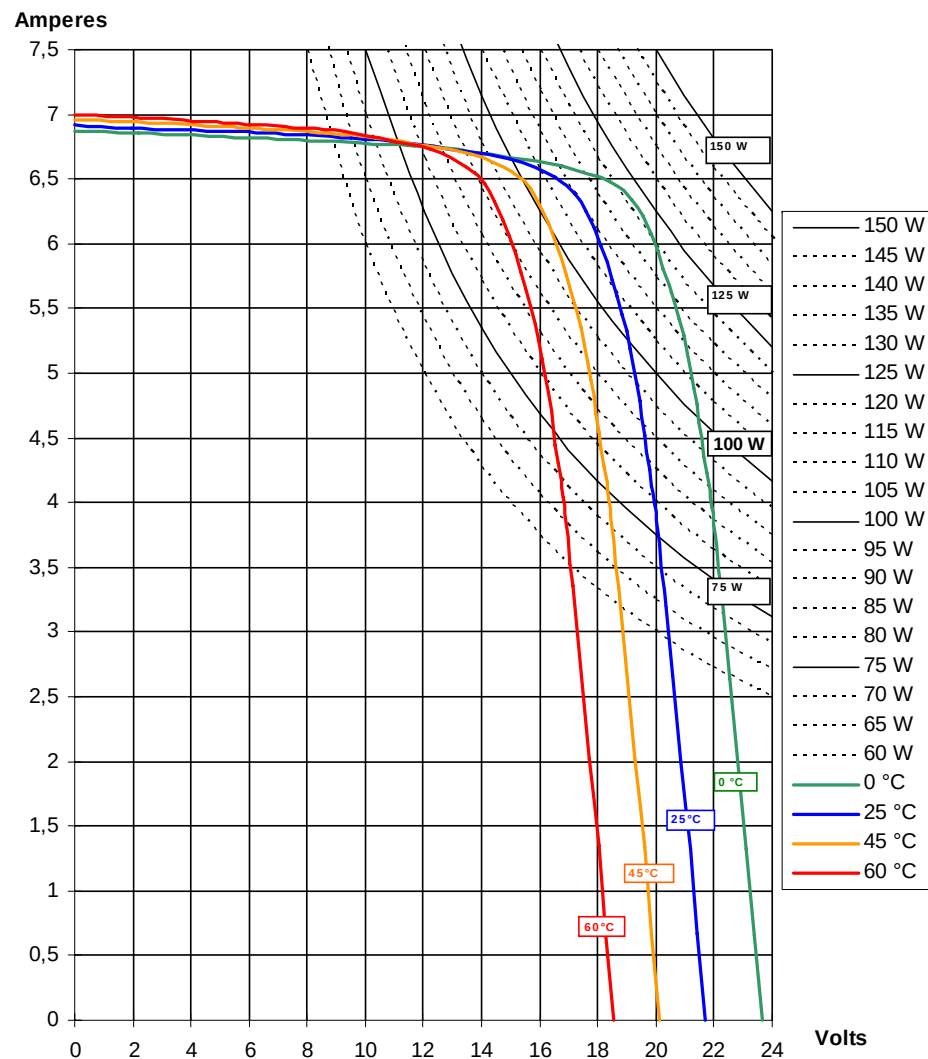


The module is protected by 2 schottky diodes (1 bypass diode per 18 cells)





$I=F(V)$ à $E=1 \text{ kW/m}^2$, $AM=1,5$ as a function of the junction temperature



$I=F(V)$ à $T = 25^\circ\text{C}$ as a function of this irradiance E (kW / m^2), $AM 1,5$.

