

PHOTOWATT PWM1650 - 12/24V PHOTOVOLTAIC MODULE - JBOX



APPLICATIONS

- Grid connected system
- Water pumping
- Telecommunications
- Battery charging system
- Cathodic protection system
- Building integrated power system

- High efficiency modules
- 8x9 5' inch monocrystalline cells (125,50 x 125,50 mm)
- Reinforced anodised aluminium frame
- 12V and UL versions available on request
- Product warranty : 5 years*
- Efficiency warranty : 25 years*
- Power tolerance : +/- 3%
- Quality insurance : ESTI (61215), TÜV " (Safety Class II), ISO 9001...











PACKING INFORMATION				
Kg	18			
mm	1237 x 1082 x 38			
modules	2 per cartons			
mm	1350 x 1130 x 102			
Kg	39			
mm	1360 x 1130 x 1770			
Kg	678			
	Kg mm modules mm Kg mm			

PWM1650		cells 125 X 125 Ø 150		
Typical power	w	165	175	
Minimum power	w	160	170	
Voltage at typical power	V	35,2	35,4	
Current at typical power	Α	4,7	4,95	
Short circuit current	Α	5,1	5,3	
Open circuit voltage	٧	44,4	44,6	
Maximum system voltage	٧	770 DC		
Temperature coefficient		α =+1,46 mA/°C ; β = -158 mV/°C ; γ P/ P = -0,43 % /°C		
Power specifications at 1000 W/m ² : 25°C: AM 1,5				

* According to general warranty conditions

** Pending

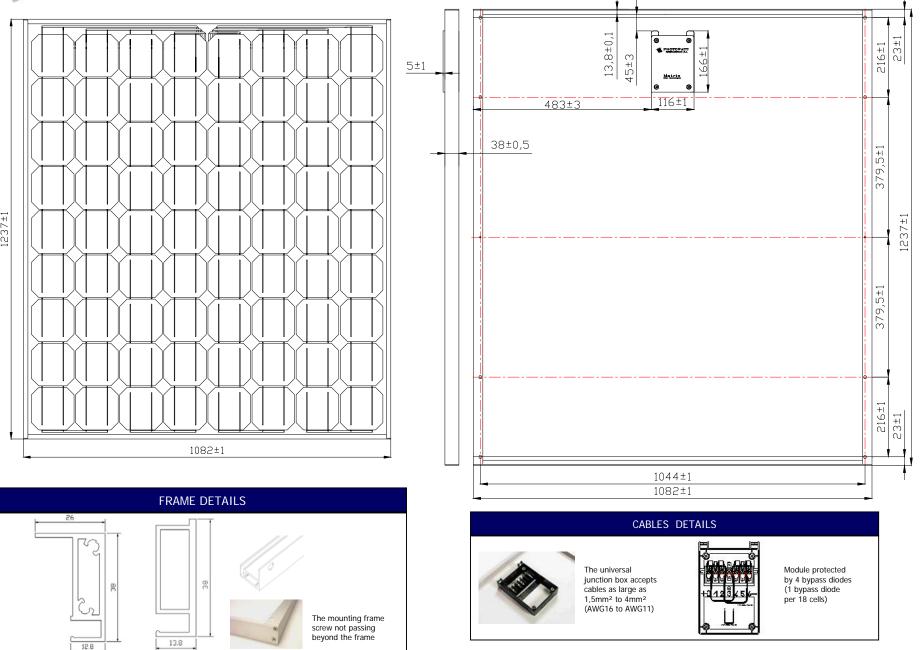
The PWM1650 is Photowatt's 5 inch high efficiency module. Thanks to its optimum size it is easy to handle and specifically dedicated to large scale grid connected applications.

The PWM1650 module uses Photowatt's monocrystalline 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+/- 3%, the PWM1650 modules ensure more power homogeneity in installations, and a financial investment corresponding to the real power produced.

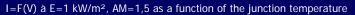




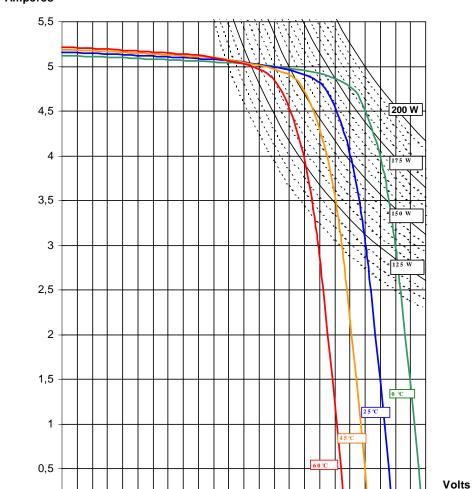


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Amperes



0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48

I=F(V) à $T=25^{\circ}C$ as a function of this irradiance E (kW / m2), AM 1,5.

