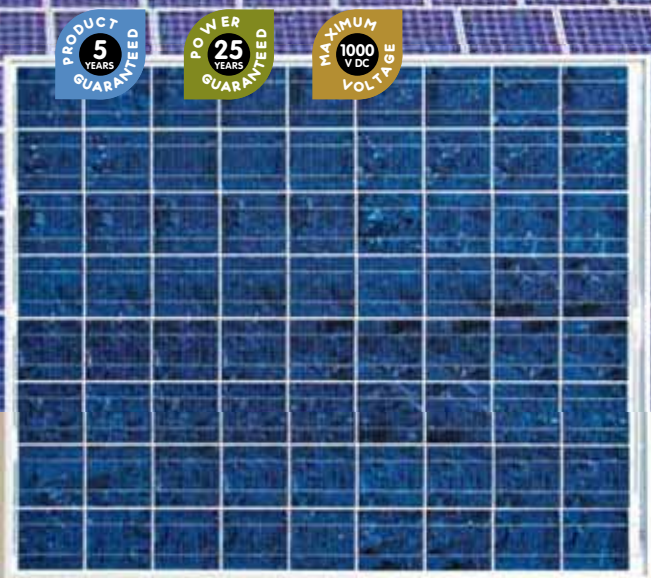


PW1650

The high efficiency photovoltaic module for all your applications



Photowatt®. Bringing solar systems to life

The only vertically integrated French manufacturer of photovoltaic systems and an acknowledged key player in this market for 30 years, Photowatt® has total control of its production, in terms of component quality, cost management, competitiveness, low CO₂ emissions, secure supplies and compliance with schedules.

PW1650, for all your applications

Tested by Photon and voted the best module in 2007 and second in 2008, the PW1650 module has been specifically developed for grid-connected applications. Thanks to its optimum size the PW1650 is easy to handle and uses Photowatt® Technologies' multicrystalline cell technology.

The module is manufactured using 3.2 mm tempered glass on the front surface and a UV resistant tri-layer polymer for the rear surface so providing high level resistance and reliability.

APPLICATIONS

PV arrays
Solar power plants

Industrial buildings
Agricultural buildings

BENEFITS

 French manufacture with low CO₂ emissions

 Tolerance improvement 0 / +5 Wp


1
2007
2
2008
First in 2007 and 2nd in 2008 in performance tests carried out by the independent magazine Photon.



Photowatt®
bringing solar systems to life

PW1650

ELECTRICAL CHARACTERISTICS

Encapsulation	Glass / TPT ou PVDF					
Size of cells	125 X 125 mm					
Number of cells	72					
Voltage	24 V					
Bypass diodes	4					
Tolerance improvement	0 / + 5 Wp					
Typical power	Wp	165	170	175	180	185
Voltage at typical power	V	34.4	34.7	35	35.3	35.6
Current at typical power	A	4.8	4.9	5.0	5.1	5.2
Open circuit voltage	V	43.2	5.2	43.4	5.4	43.6
Short circuit current	A	5.1	43.3	5.3	43.5	5.5
Maximum system voltage	V	1000V DC				
Temperature coefficient		α (Isc) = +0.034%/°C				
		β (Voc) = -0.36%/°C				
		δ (Pm) = -0.43 % /°C				
NOCT		47.1°C ± 2				
Power specifications under STC (Standard Test Conditions 1000 W/m² : 25°C : AM 1.5)						

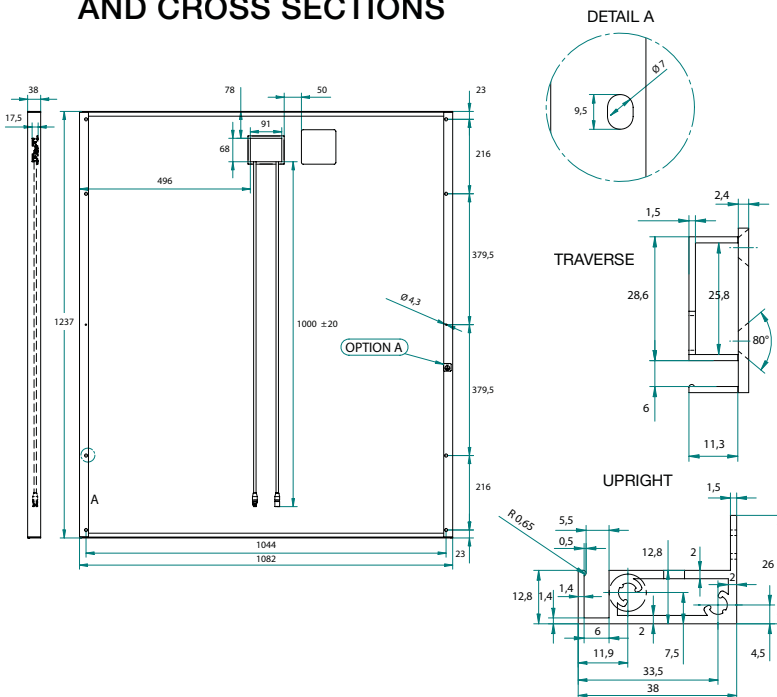
PACKING INFORMATION

Module weight	kg	18
Module size with cables	mm	1237 x 1082 x 38
Packing configuration	modules	2 per box
Packing size	mm	1360 x 1110 x 100
Packed weight	kg	39
Maximum pallet size (36 modules)	mm	1360 x 1110 x 1950
Maximum pallet weight (36 modules)	kg	717

WIRING

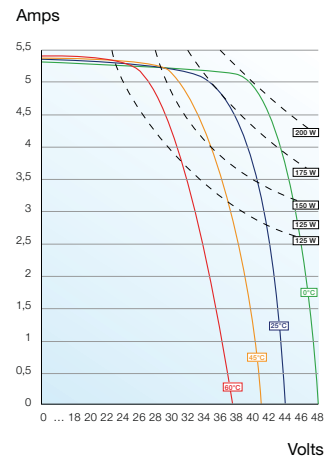
Solar cables	
Length	1000 mm
Section	4 mm²
Connector type	MC3

REAR SURFACE AND CROSS SECTIONS

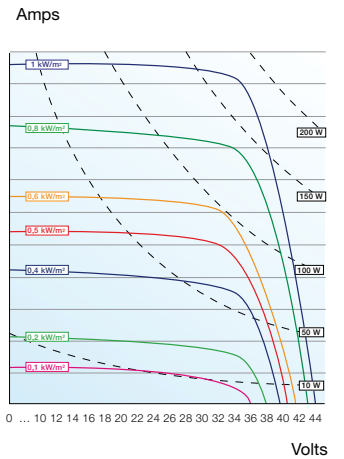


CHARACTERISTIC CURVES 175 Wp

TEMPERATURE



IRRADIANCE



Photowatt International
is a Company with
ISO 9001 Certification



Photowatt International
Société par actions simplifiée with share capital
€ 4,936,755 - 315 493 510 RCS Vienne
33, rue Saint-Honoré - Z.I. Champfleuri / 38300 BOURGOIN-JALLIEU - France
Tel : +33(0)4 74 93 80 20 - Fax : +33(0)4 74 93 80 40

Contact us: info.fr@photowatt.com - www.photowatt.com



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