

PWX 100

High reliability module PWX 100

The PWX 100 module provides a tried and tested solution for low power energy source applications. This module responds particularly to the needs of:

- telemetering
- signaling
- weather stations



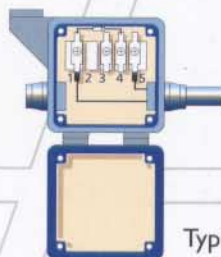
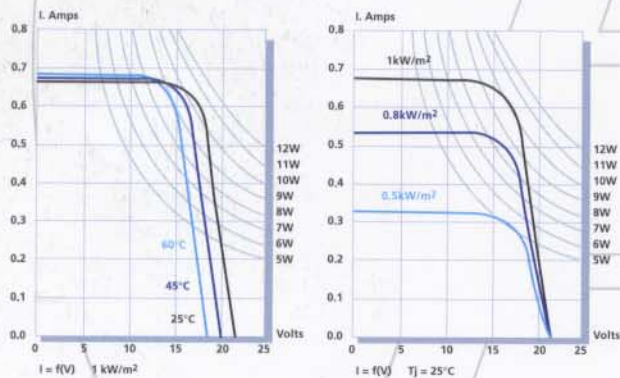
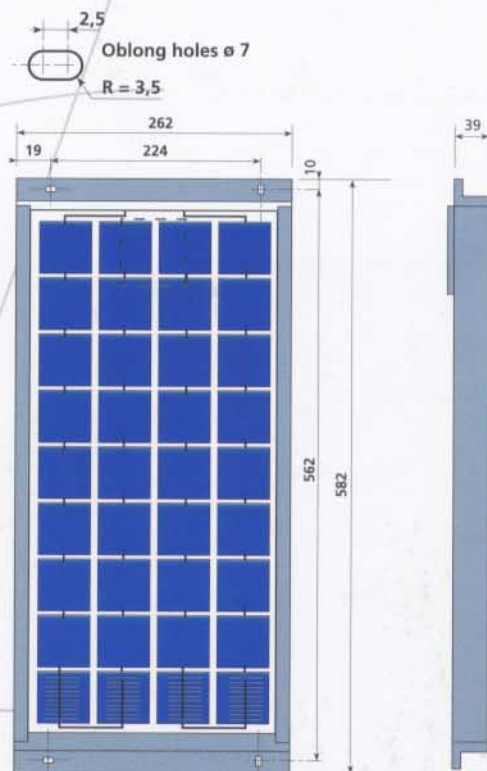
Characteristics

PWX 100

The PWX 500 module uses PHOTOWATT multi-crystalline cell technology at or with a thickness of 0.2 mm. The encapsulation of cells between two sheets of tempered glass with high transmittance guarantees the module's excellent reliability and durability. Double-glass technology ensures optimum operating characteristics in the extreme climatic conditions (temperature, humidity) to which it may be subjected. This type of heavy duty construction ensures the product's continued performance in humid or salt water environments.

The double-glass design thus benefits from the excellent mechanical and electrical insulation characteristics of the glass. Furthermore, the white aspect of the glass back considerably increases the module's power output.

The distance between the edge of the frame and the network of cells has been optimized in order to ensure both the necessary sealing and maximum reduction of the module's size. The self-supporting frame made from anodized aluminium was designed to allow it to be easily mounted either from the front or from the rear. Thanks to PHOTOWATT's continuing efforts to produce a high-performance and reliable product, the modules are designed to maintain their qualities throughout their long service life.



Typical junction box

Photowatt International S.A. is certified ISO 9002.

Performance at 1kW/m², typical values

Junction temperature	T _J	(°C)	25	45	60
Nominal battery voltage	(V)		12	12	12
Max. power (± 10 %)	P max	(W)	11	10.3	9.6
Voltage at max. power	V _m	(V)	17	15.6	14.4
Current at max. power	I _m	(A)	0.65	0.66	0.67
Short circuit current	I _{sc}	(A)	0.70	0.71	0.72
Open circuit voltage	V _{oc}	(V)	21.6	20	18.9

NOCT (0,8 kW/m², 20°C, I_m/s): 45°C

As an option, this module may be equipped with two parallel blocking diodes.



Weight: 3,4 kg



Packaging per unit

Dimensions: 610 x 280 x 60 mm

Weight: 4,2 kg

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