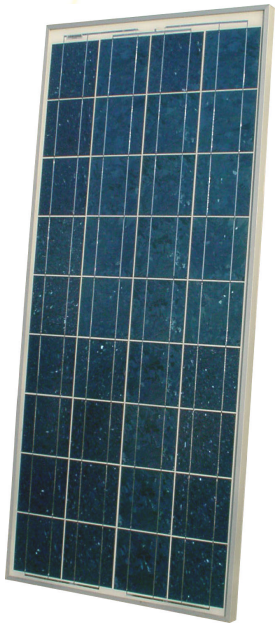
Photovoltaic modules

TE 1250

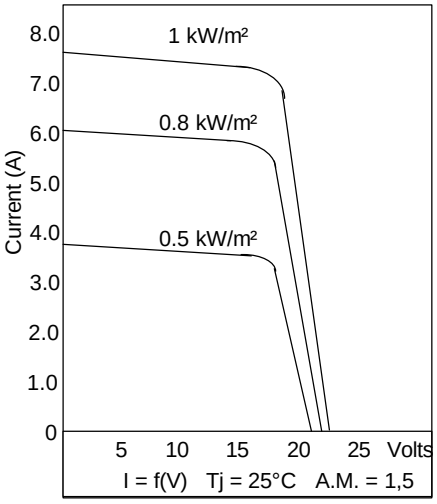


Photovoltaic module
125 Watts Peak 12 Volts, Multicristaline, Glass/Tedlar

150 x 150 mm cells size

The TE 1250 series modules use multicristaline technology.
Our high efficiency solar cells are individually characterized and electronically matched in 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 ensures the operating characteristics of the solar cells under virtually any climatic conditions.
The rear surface of the module is completely sealed from moisture and mechanical damage by a continuous high strength polymer sheet. The glass/Tedlar construction of the module minimizes weight while providing a durable, protective environment for the solar cells. In addition, the aluminium frame for this module is designed for easy and rapid installation.

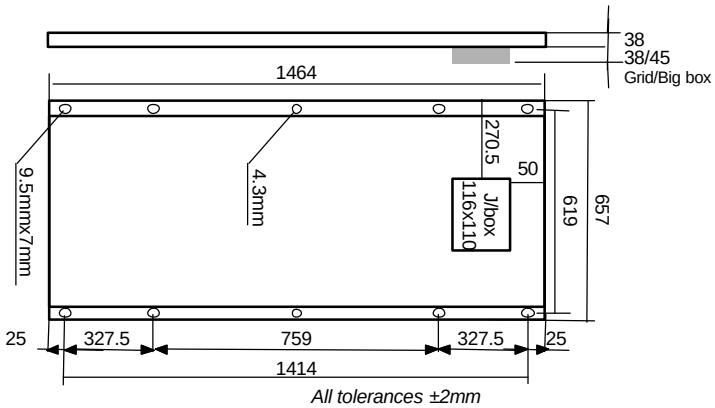
Module		TE 1250			
Code TE : 9920		1250A4	1250A3	1250A2	1250A1
Encapsulation		Glass / Tedlar			
Size of cells	mm	150 x 150			
Number of cells	pcs	36 / 4 x 9			
Typical power [1]	Wp	**115**	**120**	**125**	**130**
Nominal voltage battery	V	12			
Voltage at typical power	V	17,50	17,60	17,80	18,00
Current at typical power	A	6,50	6,80	7,00	7,20
Open circuit voltage	V	21,90	22,00	22,10	22,20
Short circuit current	A	7,10	7,30	7,50	7,70
Connection		Junction box or 2 Tyco connectors			
Maximum Syst. Oper. Voltage	V	600			
Diodes		2 by-pass			
Weight (net)	kg	11,4			
Using + Storage Temp.	°C	- 40 / + 85			
Relative humidity		0 to 100%			
Warranty	Year	25(*)			



(*) 10 Years for maritime and tropical applications
(above specifications @ STC: Insol. 1.000W/m² , AM 1.5 , Cell T 25°C)
[1] Wp (Watt peak) = Peak power
(Tolerance = ± 3%)
Standards : Module certified to IEC 61215 and TUV Classe II.

APPLICATIONS :

- Telecommunication
- Cathodic protection
- Water pumping
- Signalling
- Rural electrification
- Private residences
- Grid connected large scale systems



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TOTAL ENERGIE
12 - 14 allée du levant
69890 LA TOUR DE SALVAGNY (France)

Tel. : 33 (0) 4 78 48 88 50
Fax : 33 (0) 4 78 19 44 83
Web : www.total-energie.com
Email : total-energie@total-energie.fr

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