

Photovoltaic modules

TE 1300

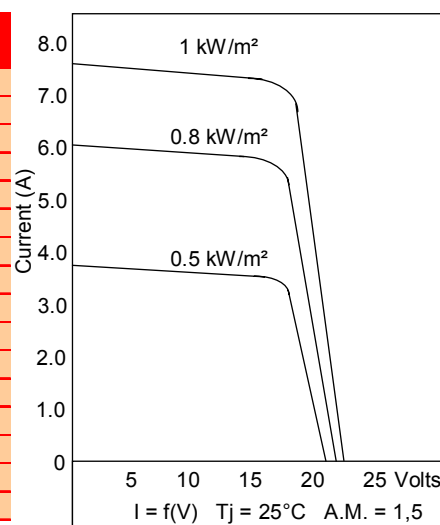
Photovoltaic module 130 Watts Peak 12 Volts, Multicristaline, Glass/Tedlar 156 x 156 mm cells size

The TE 1300 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.



TOTAL ENERGIE

Module Code TE : 9930	TE 1300				
	1300A5	1300A4	1300A3	1300A2	1300A1
Encapsulation	Glass / Tedlar				
Size of cells	mm 156 x 156				
Number of cells	pcs 36 / 4 x 9				
Typical power ¹⁾	Wp 120	125	130	135	140
Nominal voltage battery	V 12				
Voltage at typical power	V 17,80	17,90	18,00	18,10	18,20
Current at typical power	A 6,80	7,00	7,30	7,50	7,70
Open circuit voltage	V 21,80	22,00	22,20	22,30	22,40
Short circuit current	A 7,50	7,60	7,80	7,90	8,00
Connection	2 Tyco connectors				
Maximum Syst. Oper. Voltage	V 730				
Diodes	2 by-pass				
Weight (net)	kg 12				
Using + Storage Temp.	°C - 40 / + 85				
Relative humidity	0 up to 100%				
Warranty	Year 25*				

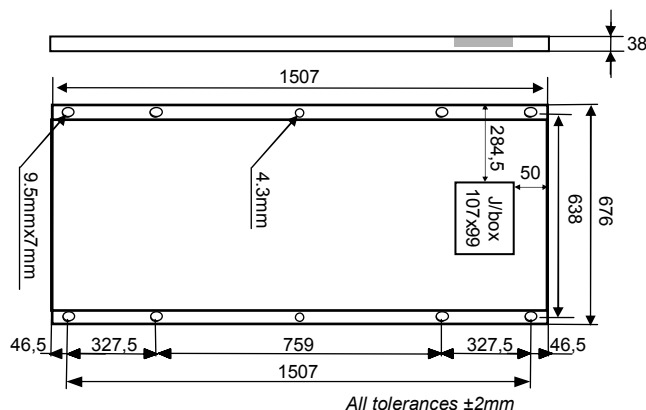


(*) 10 Years for maritime and tropical applications
(above specifications @ STC: Insol. 1.000W/m², AM 1.5, Cell T 25°C)
¹⁾ Wp (Watt peak) = Peak power
(Tolerance = ± 3%)

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



This information is not legally binding and is subject to modification at any time by TOTAL ENERGIE

17/09/2004

TOTAL ENERGIE

12-14 allée du levant 69890 LA TOUR DE SALVAGNY, France Tel. : +33 4 78 48 88 50 Fax : +33 4 78 19 44 83

www.total-energie.com