

Photovoltaic modules

TE 1800

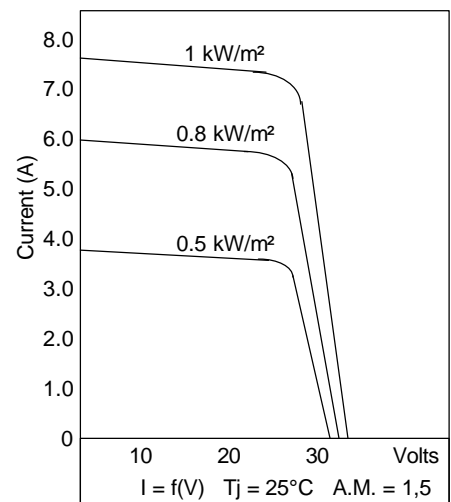
Photovoltaic module 180 Watts Peak 18 Volts, Multicristaline, Glass/Tedlar 150 x 150 mm cells size

The TE 1800 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 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.



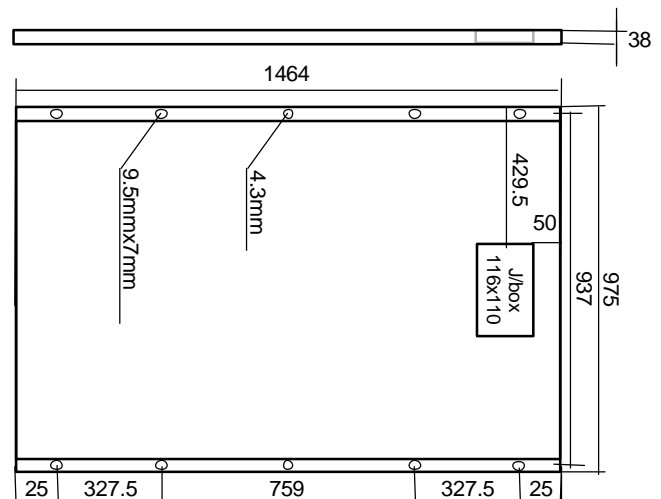
Module Code TE : 9960	1800A3	1800A2	1800A1	
Encapsulation	Glass / Tedlar			
Size of cells	mm	150 x 150		
Number of cells	pcs	54 / 6 x 9		
Typical power ¹⁾	Wp	170	180	190
Nominal voltage battery	V	18		
Voltage at typical power	V	26,60	26,80	27,00
Current at typical power	A	6,40	6,80	7,10
Open circuit voltage	V	32,80	33,00	33,20
Short circuit current	A	7,00	7,30	7,60
Connection	Grid box 2 Tyco connectors			
Maximum Syst. Oper. Voltage	V	600		
Diodes	3 by-pass			
Weight (net)	kg	17		
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 :

- Grid connected large scale systems
- Water pumping



All tolerances ±2mm

20/02/2003