

Photovoltaic modules

TE 850

Photovoltaic module 85 Watts Peak 12 Volts, Multicristaline, Glass/Tedlar 125 x 125 mm cells size

The TE 850 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.

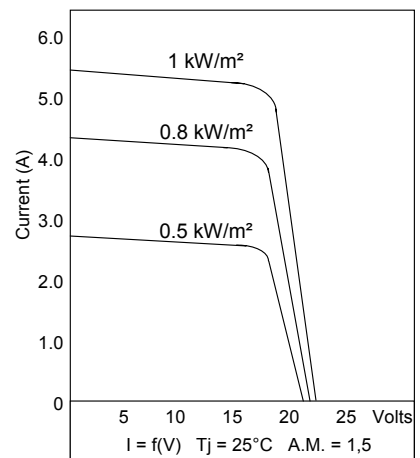


Module Code	TE 850			
	TE : 10400	850A3	850A2	850A1
Encapsulation	Glass / Tedlar			
Size of cells	mm	125 x 125		
Number of cells	pcs	36 / 4 x 9		
Typical power ¹⁾	Wp	80	85	90
Nominal voltage battery	V	12		
Voltage at typical power	V	17,30	17,70	18,00
Current at typical power	A	4,60	4,80	5,00
Open circuit voltage	V	21,80	22,00	22,20
Short circuit current	A	5,00	5,20	5,40
Connection	Junction box			
Maximum Syst. Oper. Voltage	V	600		
Diodes	2 by-pass			
Weight (net)	kg	7.80		
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



APPLICATIONS :

- Telecommunications
- Cathodic protection
- Water pumping
- Signalling
- Rural electrification
- Private residences

