

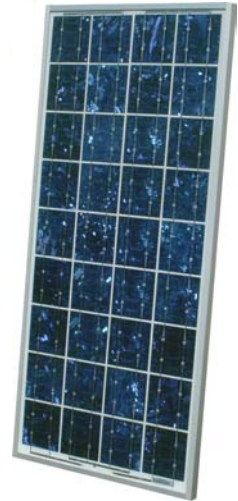
# Photovoltaic modules

## TE 500

### Photovoltaic module 50 Watts Peak 12 Volts, Multicristaline, Glass/Tedlar 102 x 102 mm cells size

The TE 500 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.

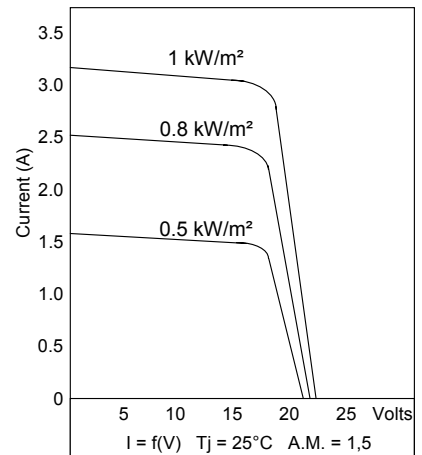


Module Code	TE 500	
	TE : 9500	501A2 501A1
Encapsulation	Glass / Tedlar	
Size of cells	mm	102 x 102
Number of cells	pcs	36 / 4 x 9
Typical power 1)	Wp	<b>50</b> <b>55</b>
Nominal voltage battery	V	12
Voltage at typical power	V	17,00 17,50
Current at typical power	A	2,94 3,14
Open circuit voltage	V	21,90 22,20
Short circuit current	A	3,30 3,50
Connection	Junction box	
Maximum Syst. Oper. Voltage	V	600
Diodes	2 by-pass	
Weight (net)	kg	5,50
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/m<sup>2</sup>, AM 1.5, Cell T 25°C)

<sup>1)</sup> Wp (Watt peak) = Peak power  
(Tolerance = ± 10%)

**Standards :** Module certified to IEC 61215



### APPLICATIONS :

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

