

Topsun's Crystalline Photovoltaic Modules are manufactured under Integrated Management System (ISO 9K: ISO 14K: BS 18K) for quality and safety environment. Offers high efficiency modules with consistent performance, quality workmanship and antimony free glass material. High power modules precisely manufactured to achieve better module conversion efficiency in the industry. Environmental friendly product confirming to RoHS standards.

### Features :

- Mono/Multi Crystalline
- Meeting MNRE standards
- Guaranteed reliability due to use of certified raw material from reputed brands
- Certified for applicable IEC standards from national & international IEC recognized laboratories.
- RoHS and CE certified
- Best suited for off grid applications

### Certifications :

- IEC 61215: 2005 Ed 2.0
- IEC 61730-1: 2013 Ed 1.2/IEC 61730-1: 2007
- IEC 61730-2: 2012 Ed 1.1/IEC 61730-2: 2007
- IEC 61701: 2012 salt mist corrosion test



## Typical Electrical Characteristics at STC & Dimensional Details

IV parameters are tested at STC (Irradiance of 1000W/m<sup>2</sup>, AM 1.5G and Temperature 25°C) & Ref below Drawing

Model No	Watt	Vmax	Imax	Voc	Isc	Length x Width x Height	A	B	C
12V 10Wp	10	17.50	0.59	21.50	0.62	436 x 241 x 22 mm (17.1 x 9.5 x 0.86 ")	100 mm (3.93")	-	209 mm (8.2")
12V 18Wp	18	17.50	1.05	21.50	1.10	351 x 451 x 22 mm (13.8 x 17.7 x 0.86 ")	100 mm (3.93")	-	419 mm (16.5")
12V 20Wp	20	17.50	1.16	21.50	1.20				
12V 30Wp	30	17.50	1.78	21.50	1.93	406 x 661 x 35 mm (15.9 x 26.0 x 1.3 ")	200 mm (7.87")	-	630 mm (24.8")
12V 37Wp	37	17.50	2.18	21.50	2.30	506 x 661 x 35 mm (19.9 x 26.0 x 1.3 ")	200 mm (7.87")	-	630 mm (24.8")
12V 40Wp	40	17.50	2.40	21.50	2.54				
12V 60Wp	60	18.00	3.45	21.50	3.65	706 x 661 x 35 mm (27.8 x 26.0 x 1.3")	200 mm (7.87")	-	630 mm (24.8")
12V 74Wp	74	18.00	4.25	21.50	4.55	866 x 661 x 35 mm (34.1 x 26.0 x 1.3")	500 mm (19.6")	-	630 mm (24.8")
12V 80Wp	80	18.00	4.50	22.00	4.85				
12V 100Wp	100	18.00	5.80	22.00	6.10	1061 x 661 x 35 mm (45.3 x 26.0 x 1.3")	600 mm (23.6")	-	630 mm (24.8")
12V 125Wp	125	18.00	7.10	22.00	7.59	1286 x 661 x 35 mm (50.6 x 26.0 x 1.3")	600 mm (23.6")	-	630 mm (24.8")
12V 130Wp	130	18.00	7.42	22.00	8.00				
12V 150Wp	150	18.00	8.50	22.00	9.10	1481 x 661 x 35 mm (58.3 x 26.0 x 1.3")	1000 mm (39.3")	600 mm (23.6")	630 mm (24.8")
24V 200Wp	200	36.00	5.59	44.00	6.08	1481 x 991 x 35 mm (58.3 x 39.0 x 1.3")	1000 mm (39.3")	600 mm (23.6")	962 mm (37.87")
24V 250Wp	250	36.00	7.00	44.00	7.60	1645 x 991 x 35 mm (64.7 x 39.0 x 1.3")	1000 mm (39.3")	600 mm (23.6")	962 mm (37.87")

Electrical Parameters Tolerance: ±3%

Specifications of Models other than mentioned above between 3W to 250W available on request  
Compliance of Simulator readings with an accuracy of class AAA (±2%)

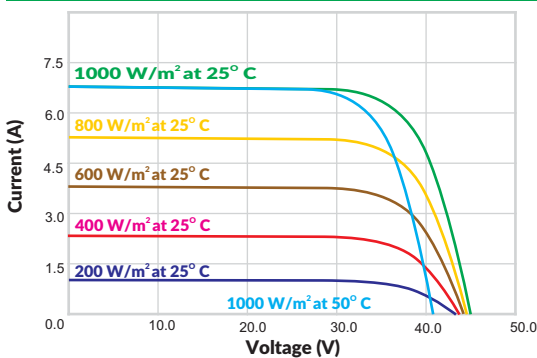
### Temperature Co-efficients

NOCT	45±2	°C
Pmp	-0.43	%/°C
Isc	0.05	%/°C
Imp	0.03	%/°C
Voc	-0.36	%/°C
Vmp	-0.45	%/°C
Operating Temperature	-40 to +85	°C

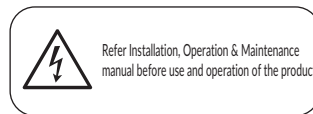
### Packing Configuration

Available in different standards of packing on request

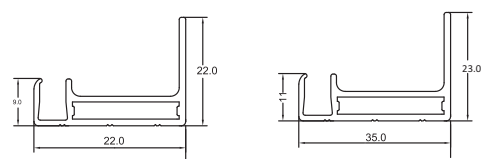
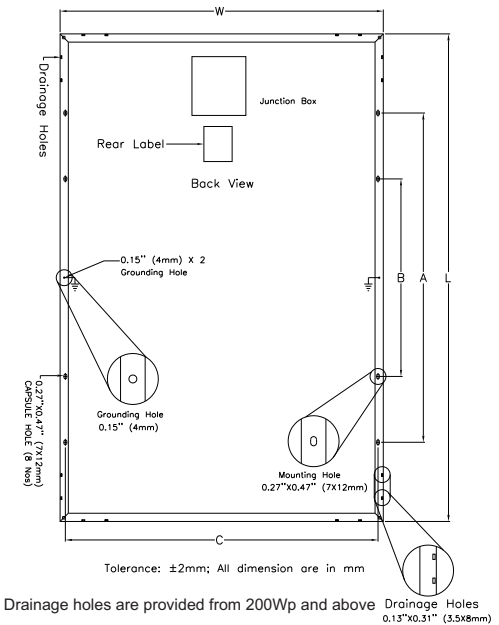
### Typical IV Curves



Current/voltage dependence on irradiance and module temperature.  
These I-V curves indicate the effect of temperature and light intensity on module Performance.



### Dimensions:



NOTE: The data presented may change due to further improvements in the product.

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