



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 AR coated 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 :

- Multi Crystalline
- 4BB/5BB Modules
- Micro cracks free -100% EL inspected
- AR coated glass for better positive tolerance
- RoHS and CE certified
- PID Free
- Linear degradation as per Industry standard
- Best suited for Grid Tied 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

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

Model/Type	(Pmax)	(Vmp)	(Imp)	(Voc)	(Isc)	Eff (%)
250 W	250.00	30.20	8.46	37.00	8.87	15.33
255 W	255.00	30.40	8.59	37.10	8.94	15.64
260 W	260.00	30.75	8.67	37.35	9.00	15.94
270 W	270.00	31.10	8.73	37.70	9.10	16.56

Compliance of Simulator readings with an accuracy of class AAA (±2%)

### Typical Electrical Characteristics at NOCT

IV parameters are tested at NOCT (Irradiance of 800W/m<sup>2</sup>, Temp at NOCT)

Model/Type	(Pmax)	(Vmp)	(Imp)	(Voc)	(Isc)
250W	183.37	26.93	6.81	33.65	7.17
255W	187.42	27.11	6.91	33.74	7.22
260W	191.35	27.42	6.98	33.97	7.27
270W	194.86	27.73	7.03	34.29	7.35

### System Design

- Series Fuse Rating (Recommended): 15A
- Maximum System Voltage: 1000 VDC
- Static Load: 5400 Pa (113 Psf)
- Module Dimension: 1645 x 991 x 35 mm
- Module Weight: 19.0 kg (41.9 Lbs)

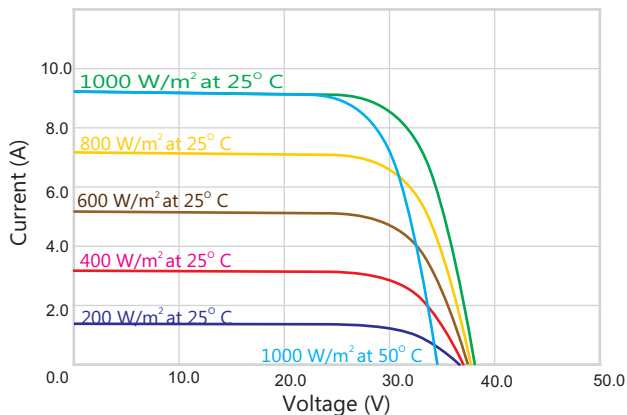
### Temperature Co-efficients

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

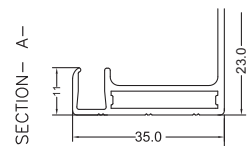
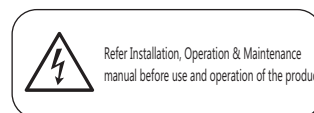
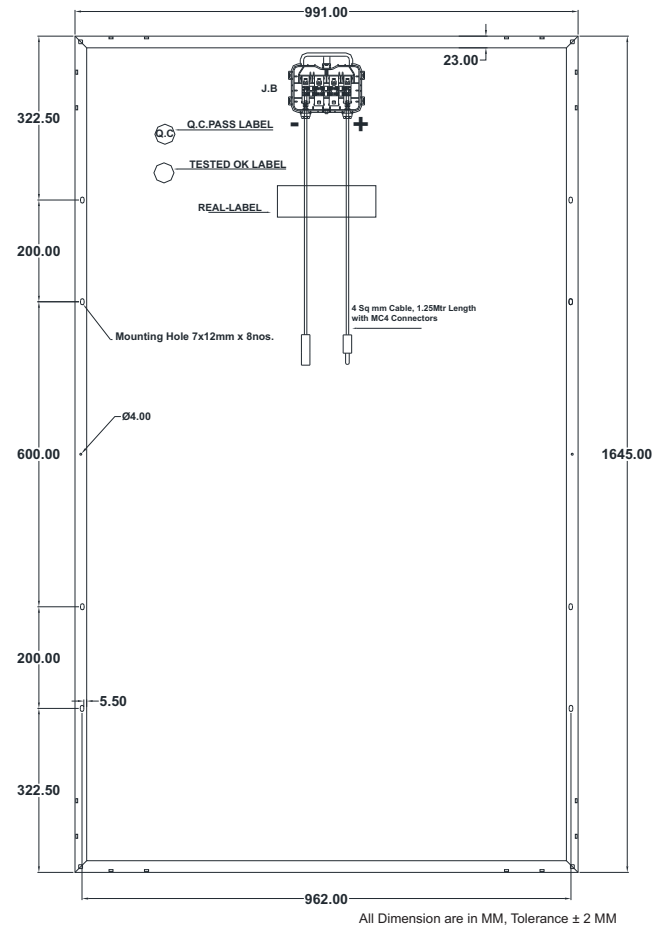
Each Pallet	26 Modules
20 Ft Container	312 Modules
40 Ft /40Ft HC Container	624 Modules

### 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.

## Topsun Energy Ltd.

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