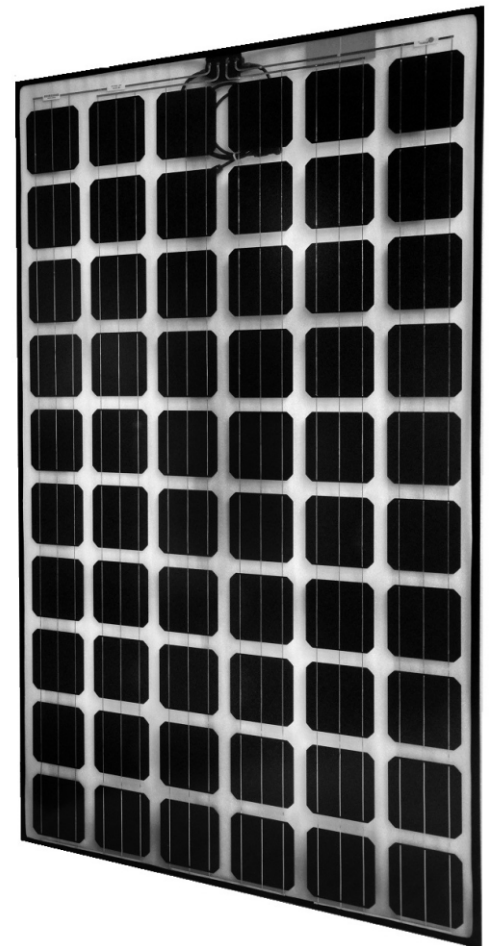


Topsun's Crystalline Photovoltaic Modules are manufactured under Integrated Management System (ISO 9K: ISO 14K: BS 18K) for quality and safety environment. Offers high module efficiencies with consistent performance, quality workmanship and antimony free glass material. High power modules precisely manufactured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

## Features:

- Mono Crystalline
- 4BB/5BB Modules
- Replacing conventional building roofs by giving power as well as light from roofs.
- Linear degradation as per Industry standard
- Encouraging Power Generation & Natural Light for Buildings
- Customized Cell spacing for Transperancy
- Best suited for Building Applications for roofs, sky lights & facades



## Certifications:

- RoHS compliance
- ISO 9001;ISO 14001;OHSAS 18001 Certified



ISO 9001; ISO 14001; OHSAS 18001

## 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 (%)
160 W	160.00	18.70	8.80	22.50	9.21	15.18
170 W	170.00	19.20	8.95	22.70	9.37	16.13
Electrical Parameters Tolerance: ± 3%						

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

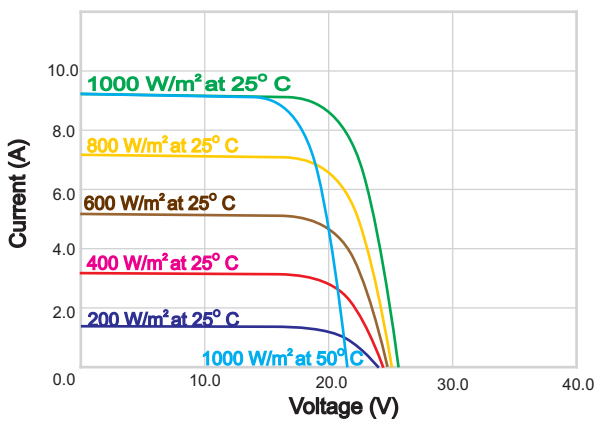
### System Design

- Series Fuse Rating (Recommended): 15A
- Maximum System Voltage: 1000 VDC
- Module Dimension: 1550 x 680 x 26 mm
- Module Weight: 34.4kg (75.83 Lbs)

### Temperature Co-efficients

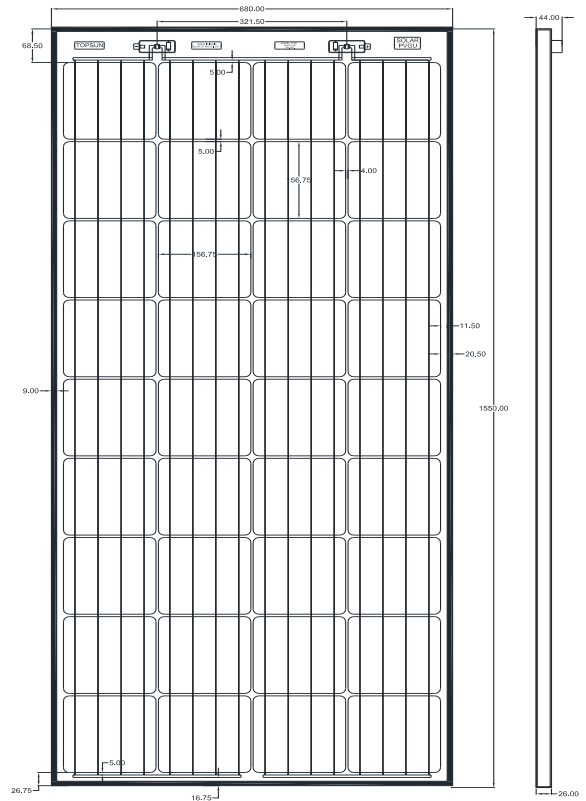
NOCT	40±2	°C
Pmp	-0.43	%/°C
Isc	0.05	%/°C
Imp	0.03	%/°C
Voc	-0.36	%/°C
Vmp	-0.45	%/°C
Operating Temperature	-40 to +85	°C

### Typical IV Curves

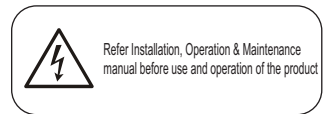


Current/voltage dependence on irradiance and module temperature. These I-V curves indicate the effect of temperature and light intensity on module Performance.

### Dimensions:



All Dimensions are in mm  
Tolerance: ±2mm



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

### Topsun Energy Limited

B-101, GIDC, Electronics Zone, Sector-25, Gandhinagar- 382 028, Gujarat, India.  
Phone/Fax: +91 79 23288804, 23288805.

Email: [marketing@topsunenergy.com](mailto:marketing@topsunenergy.com), Website: [www.topsunenergy.com](http://www.topsunenergy.com).

### Our Valued Partner