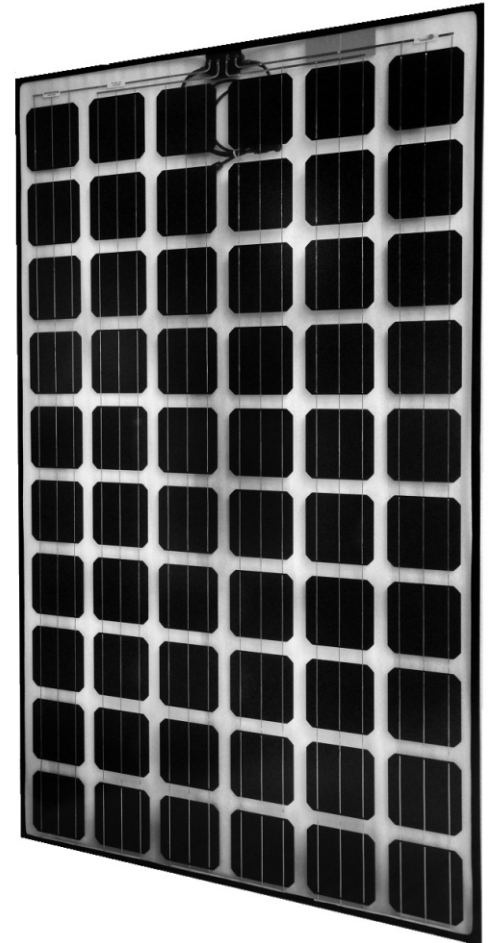




Topsun's Crystalline Photovoltaic Modules are manufactured under Integrated Management System (ISO 9K: ISO 14K: BS 18K) for quality and safety environment. Offers high module efficiencies with consistent performance, quality workmanship and *antimony free glass* material. High power modules precisely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

Features:

- Mono/Multi Crystalline
- 3BB/4BB Modules
- Increasing 30% more power from rated power leads to Module efficiency is upto 20%.
- Actual performance Vs cost ratio is high.
- Getting power from reflected light to improve the performance.
- Zero negative tolerance
- Linear degradation as per Industry standard
- Best suited for Building Applications for roofs.



Certifications:

- RoHS compliance



Typical Electrical Characteristics at STC

IV parameters are tested at STC (Irradiance of 1000W/m², AM 1.5G and Temperature 25°C)

| Model/Type | (Pmax) | (Pmax with Rear Side) | (Vmp) | (Imp) | (Voc) | (Isc) | Eff (%) | Eff with Rear side (%) |
|------------|--------|-----------------------|-------|-------|-------|-------|---------|------------------------|
| 260 W | 260.00 | 338.00 | 31.00 | 8.40 | 36.00 | 9.00 | 11.50 | 14.95 |
| 270 W | 270.00 | 351.00 | 31.50 | 8.60 | 37.00 | 9.20 | 11.95 | 15.54 |
| 280 W | 280.00 | 364.00 | 32.00 | 8.75 | 37.50 | 9.25 | 12.50 | 16.25 |

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/m²,Temp at NOCT)

| Model/Type | (Pmax) | (Vmp) | (Imp) | (Voc) | (Isc) |
|------------|--------|-------|-------|-------|-------|
| 260 W | 190.00 | 28.50 | 6.66 | 33.45 | 7.27 |
| 270 W | 197.00 | 29.25 | 6.75 | 34.35 | 7.45 |
| 280 W | 205.00 | 29.30 | 7.00 | 34.75 | 7.50 |

System Design

Series Fuse Rating (Recommended): 15A

Maximum System Voltage: 1000 VDC

Module Dimension: 1950 x 1160 x 5.5 mm

Module Weight: 29 kg (64.0 Lbs)

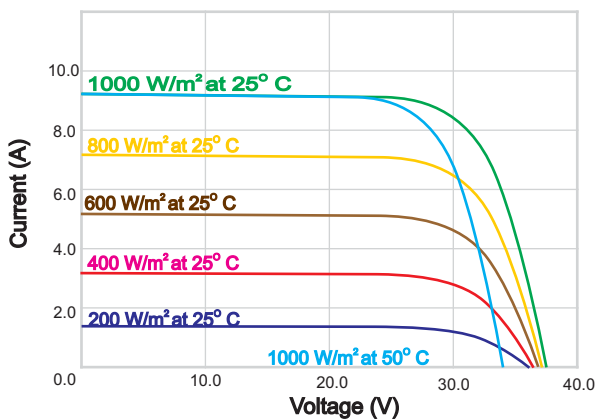
Temperature Co-efficients

| | | |
|-----------------------|------------|------|
| 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

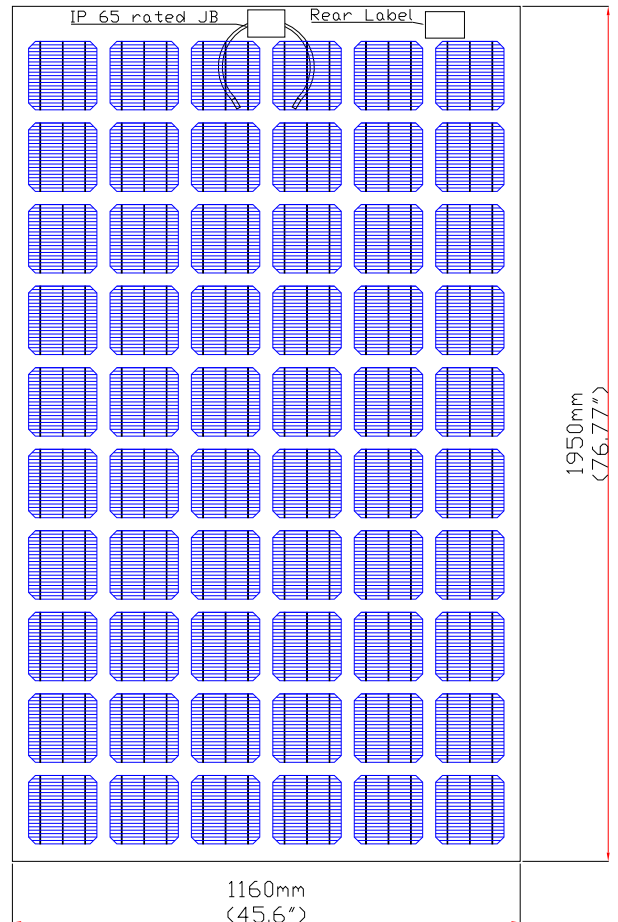
| | |
|--------------------------|-------------|
| Each Pallet | 10 Modules |
| 20 Ft Container | 180 Modules |
| 40 Ft /40Ft HC Container | 360 Modules |

Typical IV Curves

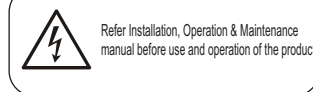


Current/voltage dependence on irradiance and module temperature. These I-V curves indicate the effect of temperature and light intensity on module Performance.

Dimensions:



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, Website: www.topsunenergy.com.

Our Valued Partner