

Topsun's Crystalline Photovoltaic Modules are manufactured under Integrated Management System (ISO 9K: ISO 14K: BS 18K) for quality and safety environment. Offers high efficiencies, consistent performance life, 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:

- Mono/Multi Crystalline
- 3BB/4BB Modules
- PID free
- Micro cracks free -100% EL inspected
- AR coated glass for better positive tolerance
- Zero negative tolerance
- RoHS and CE certified
- 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/m², AM 1.5G and Temperature 25°C)

Model/Type	(Pmax)	(Vmp)	(Imp)	(Voc)	(Isc)	Eff (%)
240 W	240.00	30.00	8.09	36.00	8.78	14.84
250 W	250.00	31.00	8.10	36.00	8.80	15.46
260 W	260.00	31.00	8.40	36.00	9.00	16.10
270 W	270.00	31.50	8.60	37.00	9.20	16.70

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)
240 W	175.00	27.20	6.45	33.45	7.10
250 W	183.00	28.50	6.50	33.45	7.11
260 W	190.00	28.50	6.66	33.45	7.27
270 W	197.00	29.25	6.75	34.35	7.45

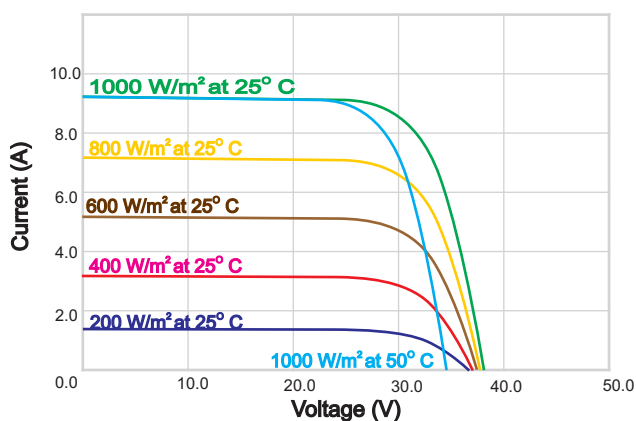
Temperature Co-efficients

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	728 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.

System Design

Series Fuse Rating (Recommended): 15A

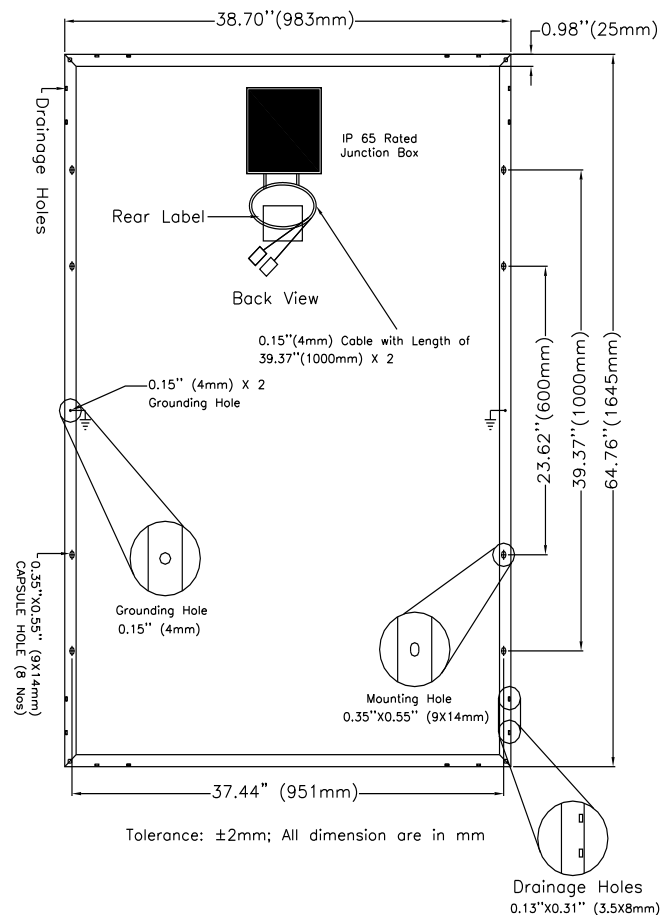
Maximum System Voltage: 1000 VDC

Static Load: 5400 Pa (113 Psf)

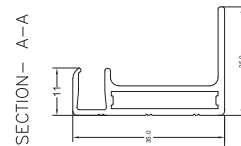
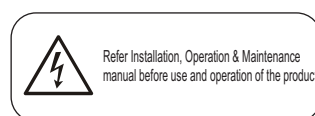
Module Dimension: 1645 x 983 x 35 mm

Module Weight: 18.9 kg (41.7 Lbs)

Dimensions:



Tolerance: ±2mm; All dimension are in mm



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

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