

**SUNNYBATT®**

**SY-M160W-24**  
High Efficiency, High Quality PV Module.

**All-purpose Module**

SUNNY BATT Solar module is a robust all-purpose solar module with high efficiency solar cell. These modules can be used for off-grid residential or commercial applications. Our meticulous design and production techniques ensure a high-yield, long term performance for every module. Our rigorous QC and testing facilities guarantee our modules meet highest quality standards possible.

**Applications**

- \*Off grid residential roof-tops
- \*off grid commercial/industrial roof-tops
- \*rural area applications
- \*Solar power system
- \*Other off-grid applications

**Product' s Guarantee**

- 5 years products life warranty
- 15 years module power output no less 90%
- 20 years module power output no less 80%



**Key features**

- \*High module efficiency and stable power output based on leading process technology
- \*Outstanding electrical performance under high temperature conditions or low irradiance conditions.
- \* Easy of installation and all-weather applications
- \*5 years product warranty ( materials and workmanship)
- 20 years module power output warranty
- \*Peak power of single module is guaranteed in ±5% power tolerance
- \*Strong framed module, passing load test of 5400 Pa ( IEC61215 2nd)
- \*The manufacturer is certified for ISO 9001:2000

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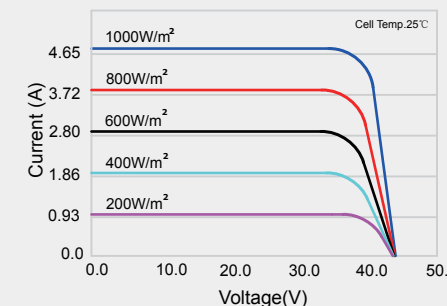
**Electrical Characteristics**

	SY-M160W-24
Maximum power (Pmax)	160W
Voltage at Pmax (Vmp)	34.4V
Current at Pmax (Imp)	4.65A
Open-circuit voltage (Voc)	43.2V
Short-circuit current (Isc)	5.17A
Temperature coefficient of Voc	-(0.40 ± 0.05)%/ °C
Temperature coefficient of Isc	(0.065 ±0.01) % /°C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	600V DC
Power tolerance	± 5%
Cells	Multicrystalline silicon solar cell
No. of cells and connections	72(6X12)
Module Dimension	1240mm[48.819in. ]x990mm[38.976in. ]x35mm[1.38in. ]
Weight	15kg[33.15lbs]

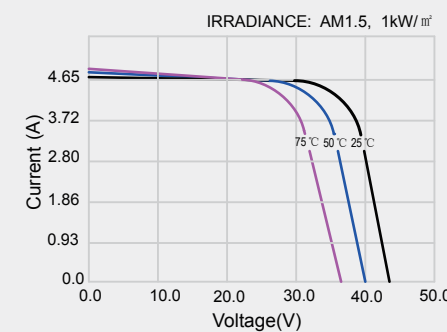
\* STC:Irradiance 1000W/m², AM1.5 spectrum, module temperature 25°C  
\* Specifications are subject to change without notice at any time.

**I-V Curves**

I-V Curves of PV module SY-M160W

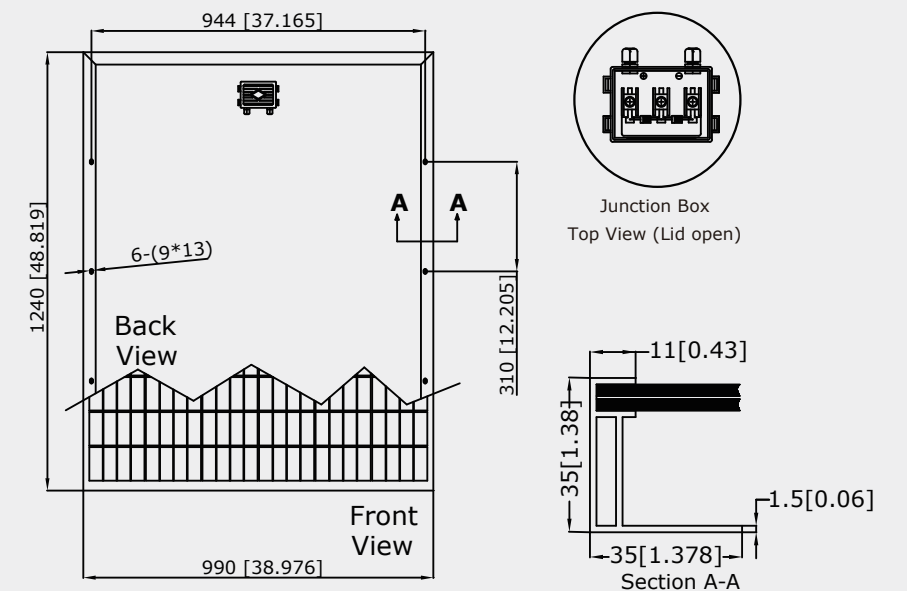


I-V Curves of module SY-M160W at various cell temperatures



**Module Diagram**

Dimensions in brackets are in inches.  
Un-bracketed dimensions are in millimeters.  
Unit: mm[in.]



**HIGH QUALITY, LONG GUARANTEE**