



SUNNYBATT®

SY-M90W-12
High Efficiency, High Quality PV Module.

All-purpose Module

SUNYBATT 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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SY-M90W-12

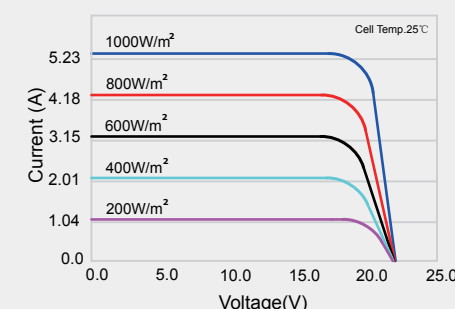
High Efficiency, High Quality PV Module.

Electrical Characteristics	SY-M90W-12
Maximum power (Pmax)	90W
Voltage at Pmax (Vmp)	17.2V
Current at Pmax (Imp)	5.23A
Open-circuit voltage (Voc)	21.6V
Short-circuit current (Isc)	5.78A
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	36(4X9)
Module Dimension	950mm[37.402in.]x670mm[26.378in.]x35mm[1.38in.]
Weight	7.1kg[15.69lbs]

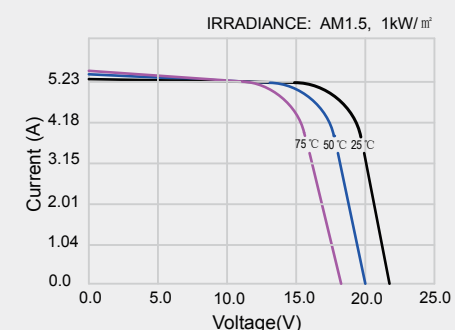
* STC:Irradiance 1000W/m², AM1.5 spectrum, module temperature 25 °C
 * Specifications are subject to change without notice at any time.

I-V Curves

I-V Curves of PV module SY-M90W

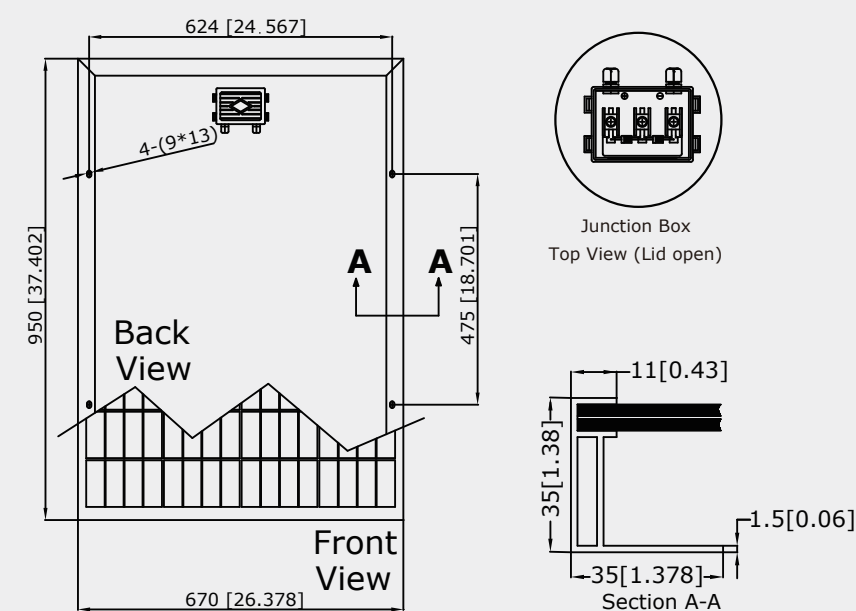


I-V Curves of module SY-M90W at various cell temperatures



Module Diagram

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



HIGH QUALITY, LONG GUARANTEE