



SUNNYBATT®

SY-M20W-12

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 $\pm 5\%$ 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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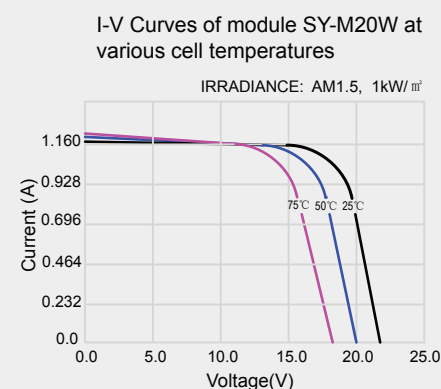
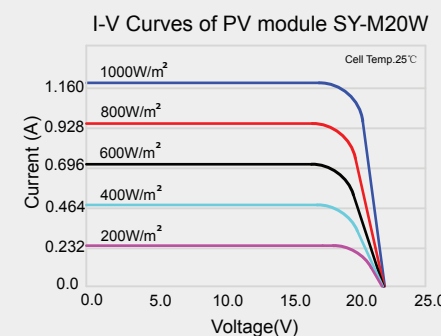
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Electrical Characteristics

	SY-S20W-12
Maximum power (Pmax)	20W
Voltage at Pmax (Vmp)	17.2V
Current at Pmax (Imp)	1.16A
Open-circuit voltage (Voc)	21.6V
Short-circuit current (Isc)	1.31A
Temperature coefficient of Voc	$-(0.40 \pm 0.05)\% / ^\circ\text{C}$
Temperature coefficient of Isc	$(0.065 \pm 0.01)\% / ^\circ\text{C}$
Temperature coefficient of power	$-(0.5 \pm 0.05)\% / ^\circ\text{C}$
NOCT (Air 20°C; Sun 0.8kW/m wind 1m/s)	47 \pm 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(2X18)
Module Dimension	520[25.43in.]x360mm[11.42in.]x30mm[1.18in.]
Weight	2.3kg[5.20lbs]

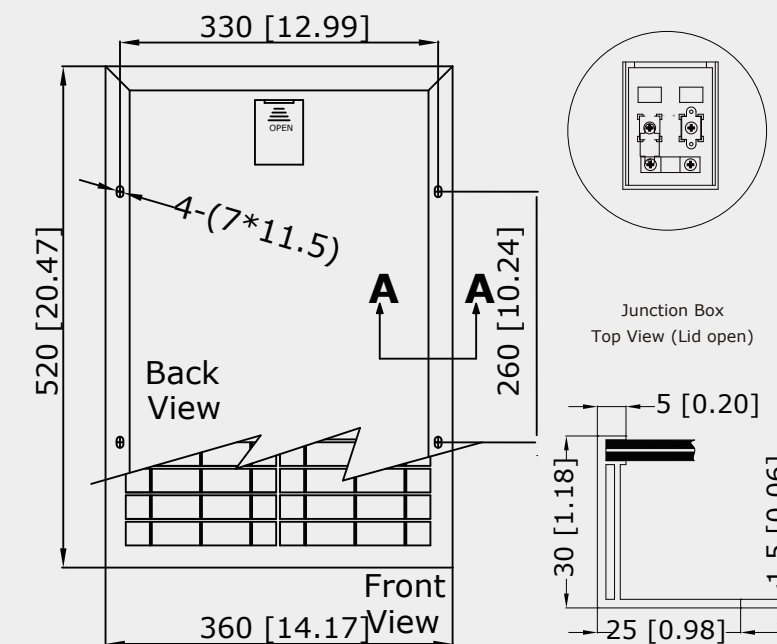
* STC:Irradiance 1000W/m², AM1.5 spectrum, module temperature 25°C
 * Specifications are subject to change without notice at any time.

I-V Curves



Module Diagram

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



HIGH QUALITY, LONG GUARANTEE