

SUNNYBATT®

SY-S45W-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 ±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-S45W-12

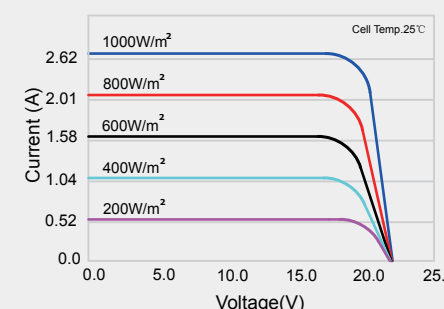
High Efficiency, High Quality PV Module.

Electrical Characteristics

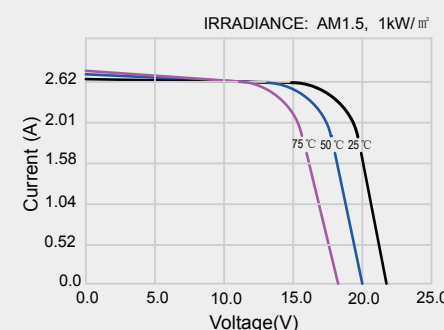
| | SY-S45W-12 |
|--|---|
| Maximum power (Pmax) | 45W |
| Voltage at Pmax (Vmp) | 17.2V |
| Current at Pmax (Imp) | 2.62A |
| Open-circuit voltage (Voc) | 21.6V |
| Short-circuit current (Isc) | 2.92A |
| Temperature coefficient of Voc | -(0.40 ± 0.05)%/ °C |
| Temperature coefficient of Isc | (0.065 ±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 | monocrystalline silicon solar cell |
| No. of cells and connections | 36(4X9) |
| Module Dimension | 646mm[25.43in.]x580mm[22.83in.]x30mm[1.18in.] |
| Weight | 4.2kg[9.28lbs] |

* 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-S45W

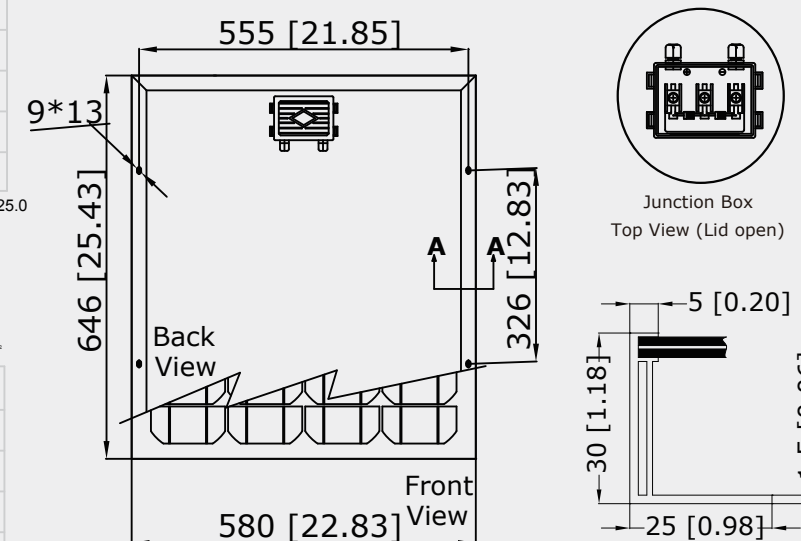


I-V Curves of module SY-S45W at various cell temperatures



Module Diagram

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



HIGH QUALITY, LONG GUARANTEE