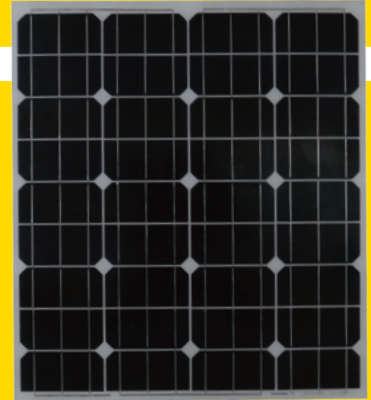


SY-S80W

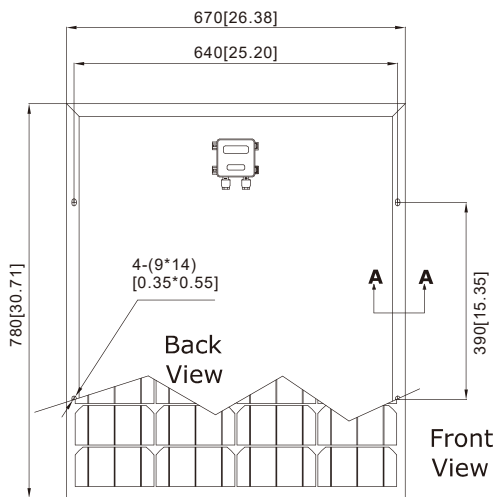
High Efficiency, High Quality PV Module



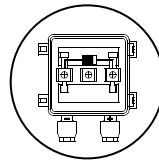
| Electrical Characteristics | SY-S80W |
|---|---|
| Maximum power (Pmax) | 80W |
| Voltage at Pmax (Vmp) | 19.2V |
| Current at Pmax (Imp) | 4.17A |
| Open-circuit voltage (Voc) | 23.6V |
| Short-circuit current (Isc) | 4.41A |
| Temperature coefficient of Voc | -(0.25 ± 0.05)%/ °C |
| Temperature coefficient of Isc | (0.025 ± 0.01)% /°C |
| Temperature coefficient of power | -(0.3±0.05)%/ °C |
| NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s) | 47±2°C |
| Operating temperature | -40°C to 85°C |
| Maximum system voltage | 600V DC |
| Power tolerance | + 3% |
| Cells | monocrystalline silicon solar cell |
| No. of cells and connections | 36(4X9) |
| Module Dimension | 780mm[30.71in.]*x670mm[26.38in.]*x30mm[1.18in.] |
| Weight | 5.9kg[12.98lbs] |

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

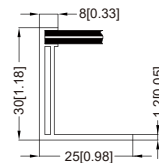
Module Diagram



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

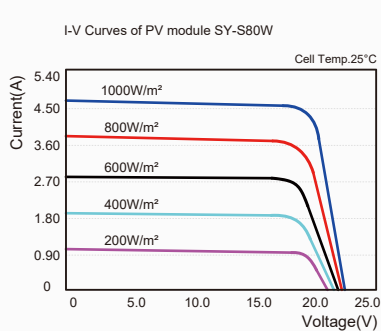


Junction Box
 Top View (Lid open)

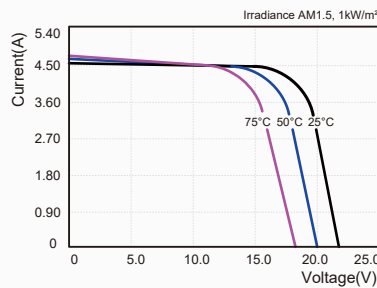


Section A-A

I-V Curves



I-V Curves of PV module SY-S80W at various cell temperatures



SUNYO Solar Technology

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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 +3% power tolerance
- Strong framed module,passing loaded test of 5400 Pa (IEC61215 2nd)
- The manufacture is certified for ISO 9001:2000

Product's Guarantee

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

Applications

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