

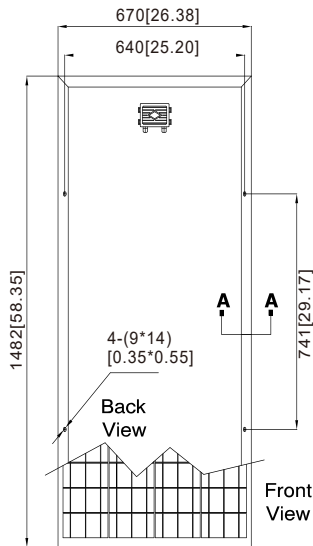
SY-M160W

High Efficiency, High Quality PV Module

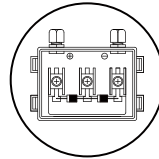
| Electrical Characteristics | SY-M160W |
|---|--|
| Maximum power (Pmax) | 160W |
| Voltage at Pmax (Vmp) | 18.3V |
| Current at Pmax (Imp) | 8.75A |
| Open-circuit voltage (Voc) | 23.2V |
| Short-circuit current (Isc) | 9.13A |
| Temperature coefficient of Voc | $-(0.40 \pm 0.05)\% / ^\circ\text{C}$ |
| 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 ² wind 1m/s) | 47±2°C |
| Operating temperature | -40°C to 85°C |
| Maximum system voltage | 600V DC |
| Power tolerance | ± 3% |
| Cells | multicrystalline silicon solar cell |
| No. of cells and connections | 36(4X9) |
| Module Dimension | 1482mm[58.35in.]x670mm[26.38in.]x35mm[1.38in.] |
| Weight | 11.1kg[24.42lbs] |

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

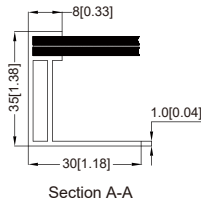
Module Diagram



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

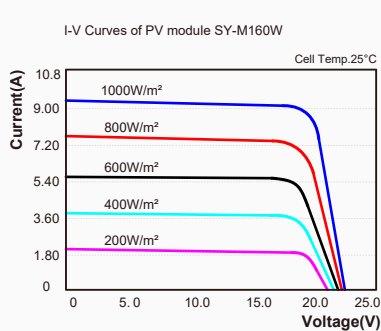


Junction Box
 Top View (Lid open)

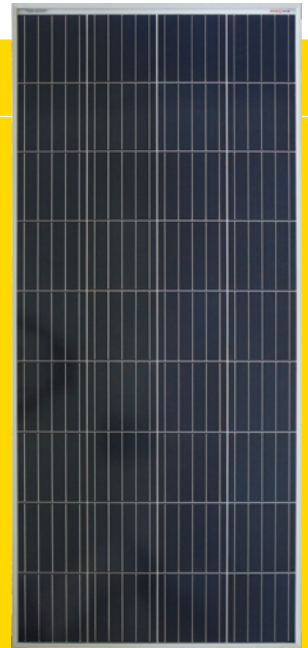
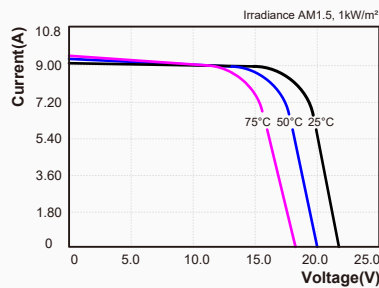


Section A-A

I-V Curves



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



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
- 10 years product warranty (materials and workmanship)
- 25 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 9001:2008

Product's Guarantee

- 10 years products life warranty
- 15 years module power output no less 90%
- 25 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



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