

SY-M90W

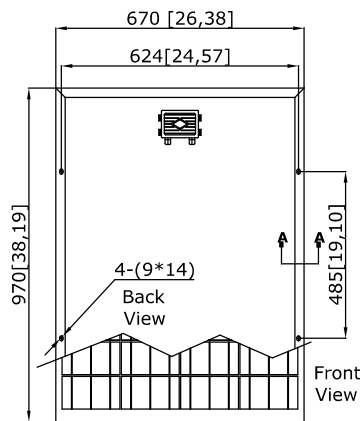
High Efficiency, High Quality PV Module



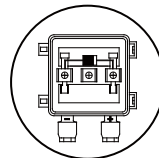
Electrical Characteristics	SY-M90W
Maximum power (Pmax)	90W
Voltage at Pmax (Vmp)	17.4V
Current at Pmax (Imp)	5.18A
Open-circuit voltage (Voc)	22.0V
Short-circuit current (Isc)	5.45A
Temperature coefficient of Voc	$-(0.40 \pm 0.05)\% / ^\circ\text{C}$
Temperature coefficient of Isc	$(0.065 \pm 0.01)\% / ^\circ\text{C}$
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	970mm[38.19in.]x670mm[26.38in.]x35mm[1.38in.]
Weight	6.9kg[15.21lbs]

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

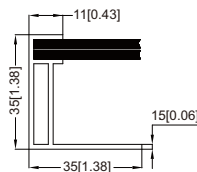
Module Diagram



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



Junction Box
 Top View (Lidopen)



Section A-A

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

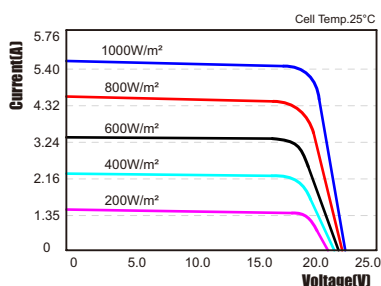
- 5 years products life warranty
- 15 years module power output no less 90%
- 20 years module power output no less 80%

Applications

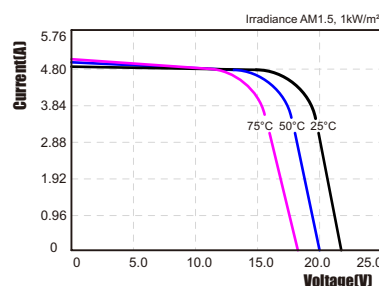
- Off grid residential roof-tops
- Off grid commercial/industrial roof-tops
- Rural area applications
- Solar power system
- Other off-grid applications

I-V Curves

I-V Curves of PV module SY-M90W



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



NEMTEK(PTY)LTD

Address: Northriding commercial Park
 Stand 251, Aintree Street Northriding
 Randburg
TEL: 27 11462 8283
TAX: 27 11462 7132