

SY-M20W

High Efficiency, High Quality PV Module



Electrical Characteristics	SY-M20W
Maximum power (Pmax)	20W
Voltage at Pmax (Vmp)	17.4V
Current at Pmax (Imp)	1.16A
Open-circuit voltage (Voc)	22.0V
Short-circuit current (Isc)	1.21A
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(3X12)
Module Dimension	520mm[20.27in.]x360mm[14.17in.]x30mm[1.18in.]
Weight	2.4kg[5.29lbs]

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



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

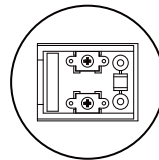
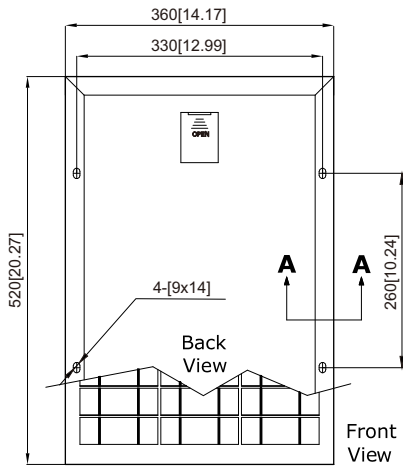
- 5 years products life warranty
- 15 years module power output no less 90%
- 20 years module power output no less 80%

Applications

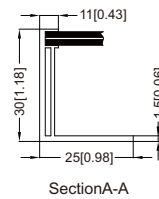
- Off grid residential roof-tops
- Off grid commercial/industrial roof-tops
- Rural area applications
- Solar power system
- Other off-grid applications

Module Diagram

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

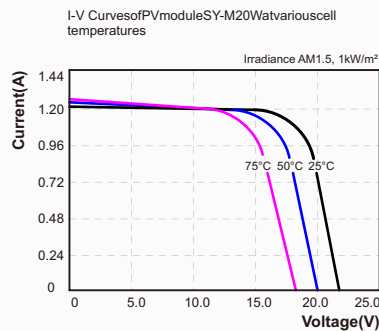
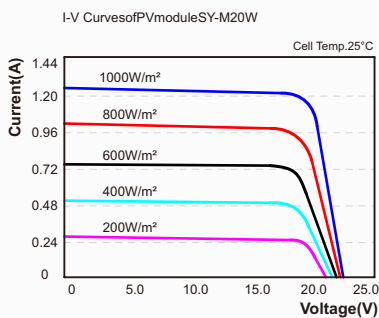


Junction Box
 Top View (Lidopen)



Section A-A

I-V Curves



NEMTEK(PTY)LTD

Address: Northriding commercial Park
 Stand251, Aintree Street Northriding
 Randburg
TEL: 27 11462 8283
TAX: 27 11462 7132