

# SOL-SYS90W

# High Efficiency, High Quality PV Module



Electrical Characteristics	SOL-SYS90W
Maximum power (Pmax)	90W
Voltage at Pmax (Vmp)	18.3V
Current at Pmax (Imp)	4.92A
Open-circuit voltage (Voc)	23.2V
Short-circuit current (Isc)	5.11A
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/m² 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	900mm[35.43in.]x670mm[26.38in.]x35mm[1.38in.]
Weight	7.1kg[15.62lbs]

\* 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

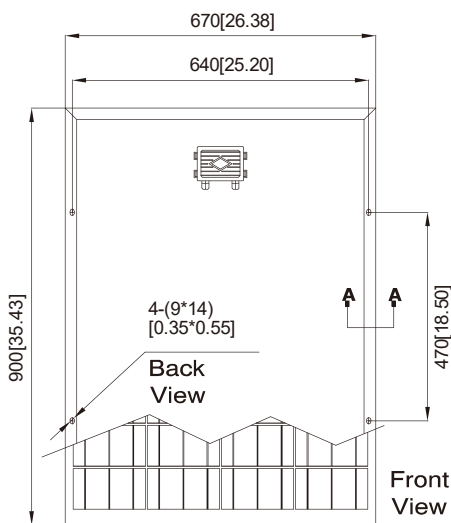
### Product's Guarantee

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

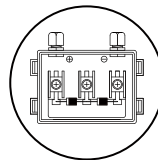
### Applications

- Of grid residential roof-tops
- Of grid commercial/industrial roof-tops
- Rural area applications
- Solar power system
- Other of-grid applications

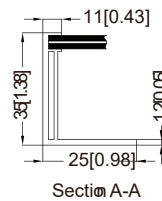
## Module Diagram



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



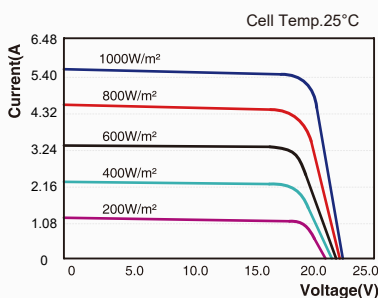
Junction Box  
 Top View (Lid open)



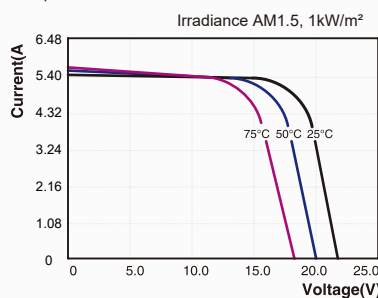
Section A-A

## I-V Curves

I-V Curves of PV module SOL-SYS90W



I-V Curves of PV module SOL-SYS90W at various cell temperatures



# NEMTEK

## NEMTEK(PTY)LTD

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