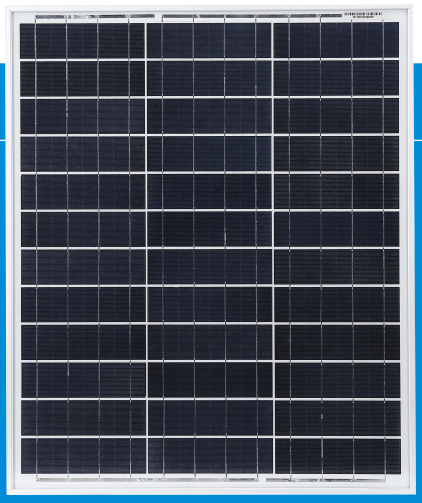
SOL-SYS45W High Efficiency, High Quality PV Module

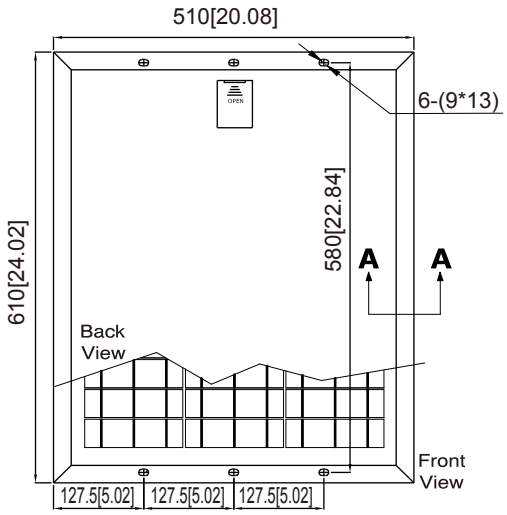


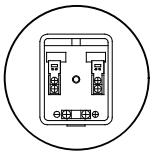
Electrical Characteristics	SOL-SYS45W
Maximum power (Pmax)	45W
Voltage at Pmax (Vmp)	18.3V
Current at Pmax (Imp)	2.46A
Open-circuit voltage (Voc)	23.2V
Short-circuit current (Isc)	2.55A
Temperature coefficient of Voc	-(0.40 ± 0.05)%/ °C
Temperature coefficient of Isc	(0.065 ±0.01)% /°C
Temperature coefficient 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(3X12)
Module Dimension	610mm[24.02in.]x510mm[20.08in.]x30mm[1.18in.]
Weight	3.80kg[8.38lbs]

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

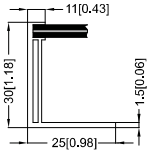
Module Diagram

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





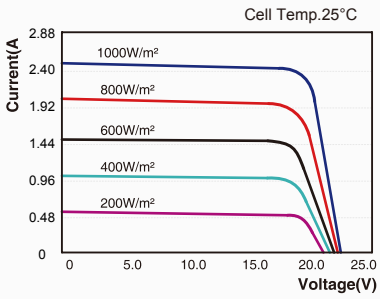
Junction Box
Top View (Lid open)



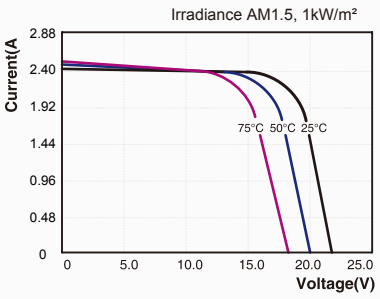
Section A-A

I-V Curves

I-V Curves of PVmoduleSOL-SYS45W



I-V Curves of PV module SOL-SYS45W atvariouscell temperatures



IEC CE RoHS

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

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