

SLP050-12 (CLASS 1 DIVISION 2)

High Efficiency Multicrystalline PV Module



Certified to UL1703 and cUL1703
Certified for Hazardous Environments
C1D2 - Class 1, Division 2

Electrical Characteristics	SLP050-12
Product code	050011233A
Maximum power (Pmax)	50W
Voltage at Pmax (Vmp)	18.0V
Current at Pmax (Imp)	2.78A
Open-circuit voltage (Voc)	22.0V
Short-circuit current (Isc)	2.98A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/°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	± 5%

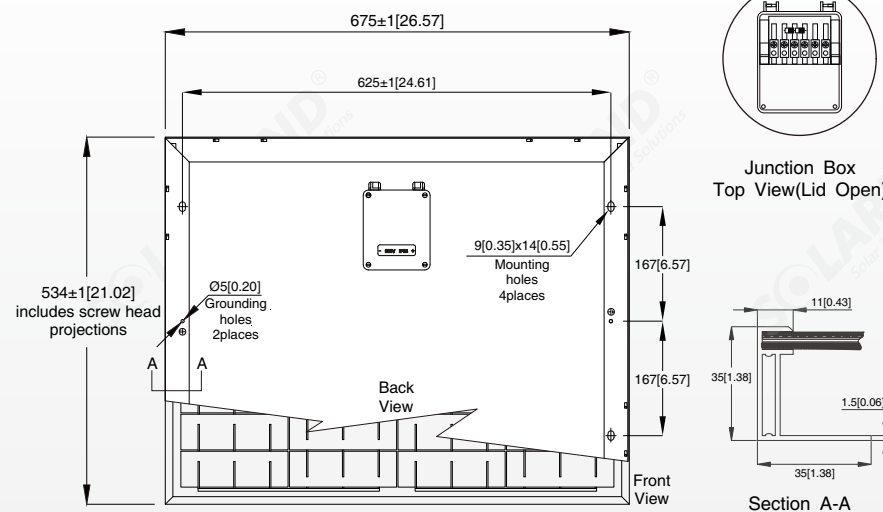
*STC: Irradiance 1000W/m², AM1.5 spectrum, module temperature 25°C

*NOCT: Nominal operating cell temperature (the data is only for reference)



Module Diagram

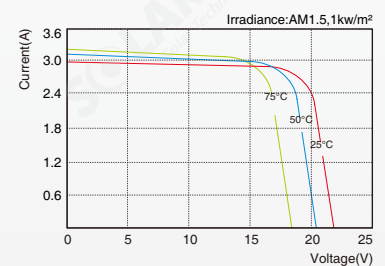
Dimensions in brackets are in inches.
Un-bracketed dimensions are in millimeters.
Unit: mm[in.]



Features

- Nominal 12V DC for standard output.
- Outstanding low-light performance.
- Heavy-duty anodized frames.
- High transparent low-iron, tempered glass.
- Rugged design to withstand high wind pressure, hail and snow load.
- Aesthetic appearance.

Characteristics



SLP050-12 I-V Curves

Specifications	SLP050-12
Cells	Polycrystalline silicon solar cell
No. of cells and connections	36(4X9)
Module dimension	534mm[21.02in.]x675mm[26.57in.]x35mm[1.38in.]
Weight	4.7kg[10.36lbs]
Packing information(Carton)	720mm[28.35in.]x580mm[22.83in.]x105mm[4.13in.]/(2pcs/ctn)

*Limited warranty: 5-year limited warranty of materials and workmanship; 10-year limited warranty of 90% power output; 25-year limited warranty of 80% power output. For detail, please contact us.

*Specifications are subject to change without notice at any time.