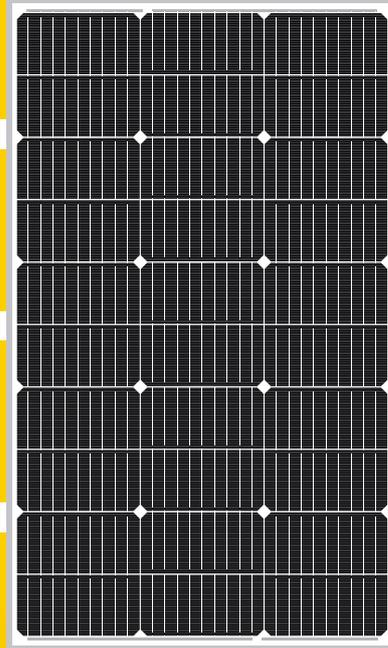


**30 CELL**  
MONOCRYSTALLINE MODULE

**90W**  
POWER OUTPUT

**20.00%**  
MODULE EFFICIENCY

**5%**  
POSITIVE TOLERANCE



# SLP090S-12U

## High Efficiency Monocrystalline PV Module

- Nominal 12V DC for standard output.
- Outstanding low-light performance.
- Heavy-duty anodized frames.
- High transparent low-iron, tempered glass.
- Designed to withstand high wind pressures, hail and heavy snow.
- Quality aesthetic appearance.



**High Efficiency**

Module Efficiency improved through advanced cell technology and manufacturing capabilities



**High PID Resistance**

Advanced cell technology and qualified materials lead to high resistance to PID



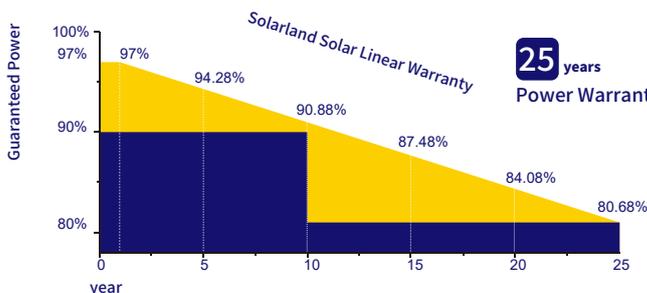
**Withstands Harsh Environment**

High PID resistance  
5400 Pa positive load  
2400 Pa negative load  
Salt mist (IEC 61701)

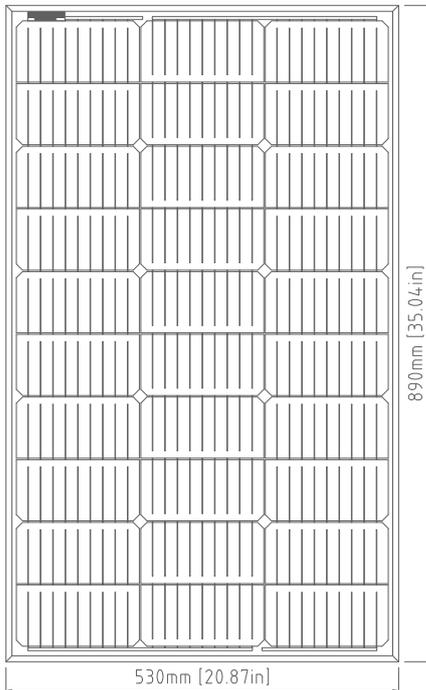
### Performance Warranty

**10** years  
Product Warranty

**25** years  
Power Warranty



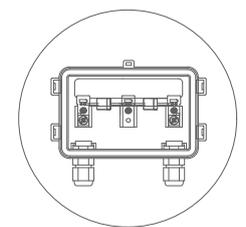
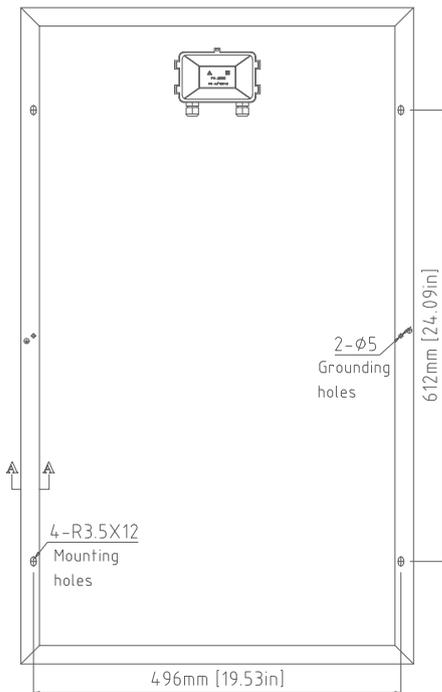
Positive mechanical load	>5400Pa
Positive Power Tolerance	0~+5W
Warranty Information	2 Year Product Warranty and Workmanship



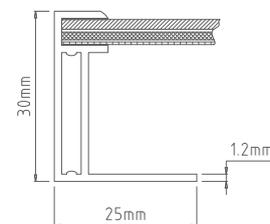
Electrical Characteristics	SLP090S-12U
Product code	090031201A
Maximum power (Pmax)	90W
Voltage at Pmax (Vmp)	17.37V
Current at Pmax (Imp)	5.19A
Open-circuit voltage (Voc)	20.04V
Short-circuit current (Isc)	5.47A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/°C
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	1000V 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)

Specifications	SLP090S-12U
Cells	Monocrystalline silicon solar cell
No. of cells and connections	30(3x10)
Module dimension	890mm[35.04in.]x530mm[20.87in.]x30mm[1.18in.]
Weight	5.51kg[12.16lbs]
Packing information(Carton)	940mm[37.01in.]x580mm[22.83in.]x80mm[3.15in.]/(1pc/ctn)

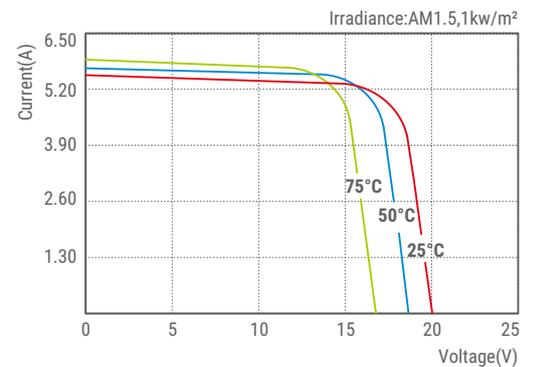


Junction Box  
Top View (Lid Open)



Section A-A

Characteristics



SLP090S-12U I-V Curves

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