

# SLP020S-12R

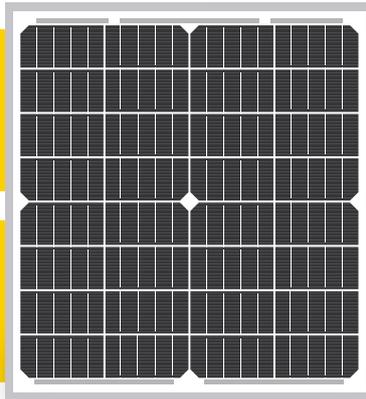
## High Efficiency Monocrystalline PV Module

**32 CELL**  
MONOCRYSTALLINE MODULE

**20W**  
POWER OUTPUT

**20.00%**  
MODULE EFFICIENCY

**5%**  
POSITIVE TOLERANCE



- 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**

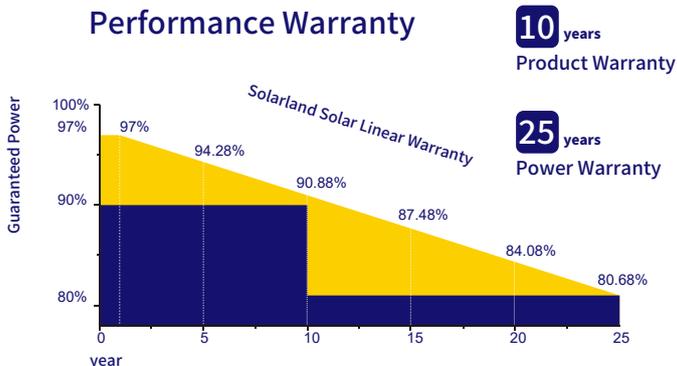
Advanced cell technology and qualified materials lead to high resistance to PID



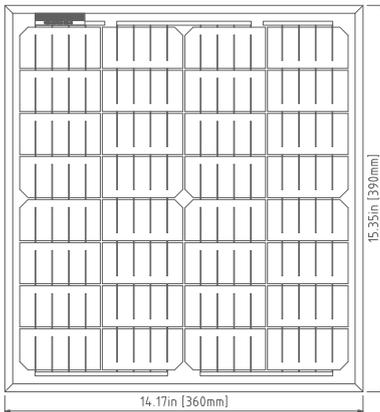
**Withstands Harsh Environment**

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

### Performance Warranty

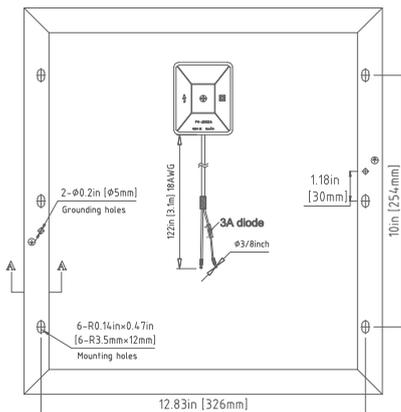


Positive mechanical load >5400Pa  
Positive Power Tolerance 0~+5W  
Warranty Information 2 Year Product Warranty and Workmanship

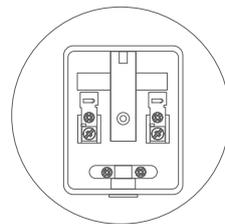


Electrical Characteristics	SLP020S-12R
Product code	020031203A
Maximum power (Pmax)	20W
Voltage at Pmax (Vmp)	18.53V
Current at Pmax (Imp)	1.08A
Open-circuit voltage (Voc)	21.37V
Short-circuit current (Isc)	1.14A
Temperature coefficient of Voc	- $(80 \pm 10)$ mV/°C
Temperature coefficient of Isc	$(0.065 \pm 0.015)\%$ / °C
Temperature coefficient of power	- $(0.5 \pm 0.05)\%$ / °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%

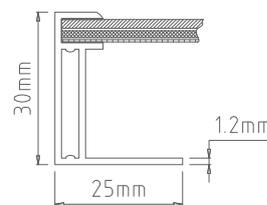
\*STC: Irradiance 1000W/m², AM1.5 spectrum, module temperature 25°C  
\*NOCT: Nominal operating cell temperature (the data is only for reference)



Specifications	SLP020S-12R
Cells	Monocrystalline silicon solar cell
No. of cells and connections	32(4X8)
Module dimension	390mm [15.35in.] x 360mm [14.17in.] x 30mm [1.18in.]
Weight	1.81kg [4.00lbs]
Packing information (Carton)	420mm [16.54in.] x 215mm [8.46in.] x 390mm [15.35in.] / (5pcs/ctn)

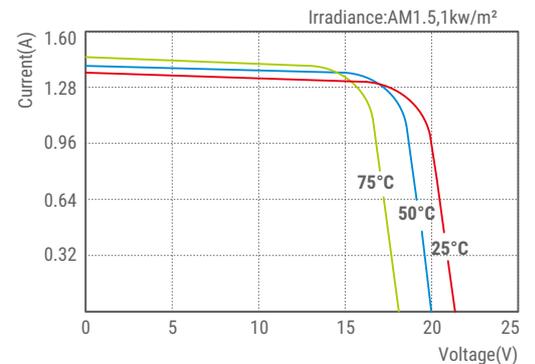


Junction Box  
Top View (Lid Open)



Section A-A

Characteristics



SLP020S-12R I-V Curves

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