SOLARLAND®
Solar Technology and Solutions

■ SOLAR PANEL

SLP010S-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.

30 CELL
MONOCRYSTALLINE MODULE

10W
POWER OUTPUT

20.00%
MODULE EFFICIENCY

5%
POSITIVE TOLERANCE

High Efficiency

Module Efficiency improved through advanced cell technology and manufacturing capabilities
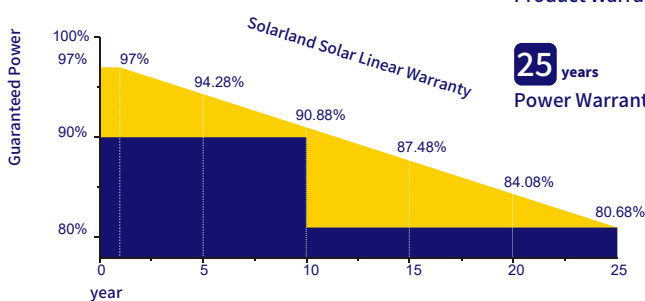
High PID Resistance

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

Guaranteed Power

Solarland Solar Linear Warranty

- 100%
- 97% — 97%
- 94.28%
- 90.88%
- 90%
- 87.48%
- 84.08%
- 80%
- 80.68%

year: 0 — 5 — 10 — 15 — 20 — 25

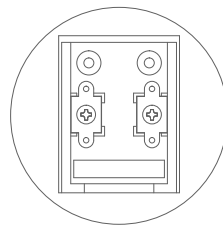|	
Product Certificate	IEC 61215, IEC 61730
Management Certificate	ISO 9001: 2016
Other certificate	Fire Rating Class C, TÜV Rheinland
Positive mechanical load	>5400Pa
Positive Power Tolerance	0~+5W
Warranty Information	2 Year Product Warranty and Workmanship

TÜV   CE

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250mm [9.84in]
310mm [12.2in]
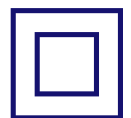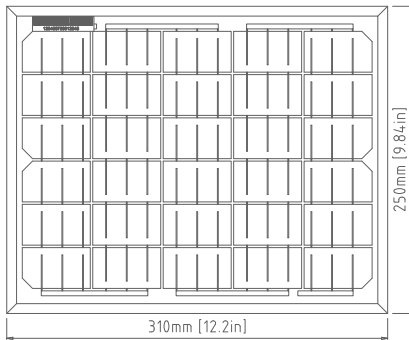
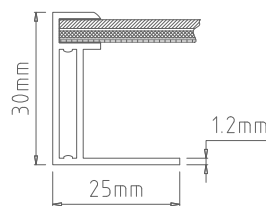| Electrical Characteristics	SLP010S-12U
Product code	010031202A
Maximum power (Pmax)	10W
Voltage at Pmax (Vmp)	17.37V
Current at Pmax (Imp)	0.69A
Open-circuit voltage (Voc)	20.04V
Short-circuit current (Isc)	0.73A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °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)

6-R3.5x12
Mounting holes
2-∅5
Grounding holes
102mm [4.02in]
276mm [10.87in]
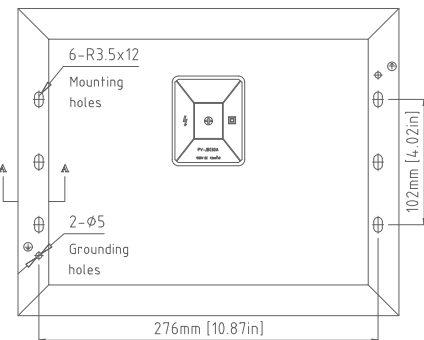
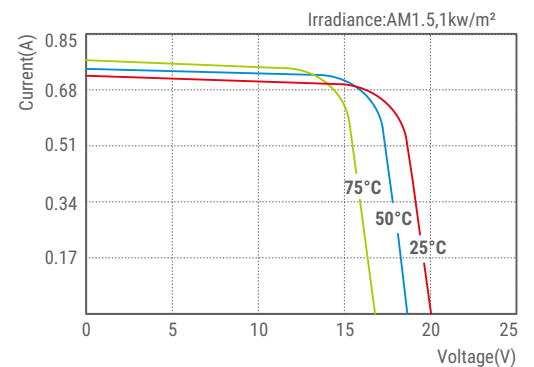| Specifications	SLP010S-12U
Cells	Monocrystalline silicon solar cell
No. of cells and connections	30(5X6)
Module dimension	250mm[9.84in.]x310mm[12.20in.]x30mm[1.18in.]
Weight	1.09kg[2.41lbs]
Packing information(Carton)	300mm[11.81in.]x360mm[14.17in.]x80mm[3.15in.]/(1pc/ctn)

Junction Box
Top View (Lid Open)

Characteristics

Irradiance:AM1.5,1kw/m²
Current(A)
0.85
0.68
0.51
0.34
0.17
75°C
50°C
25°C
0 5 10 15 20 25
Voltage(V)

SLP010S-12U I-V Curves

30mm
1.2mm
25mm

Section A-A

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