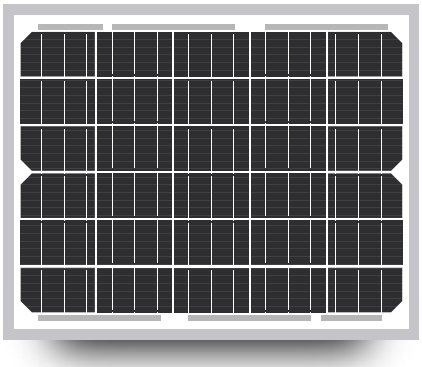
SLD TECH™
Renewable Technology And Solutions

SOLAR PANEL

ST-10P-12

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

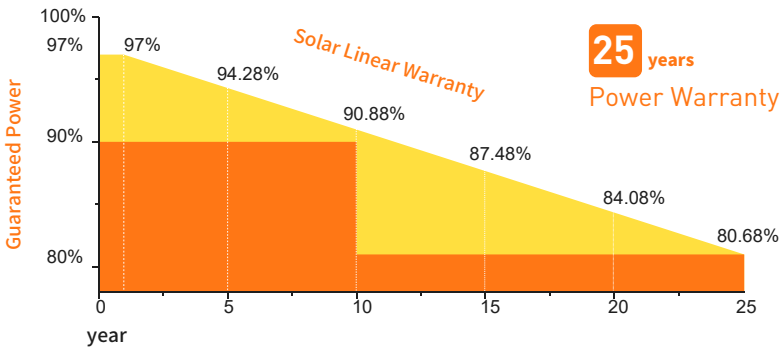
High PID Resistance

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



2 years
Product Warranty

25 years
Power Warranty

Wind Load/Snow Load:
2400pa/5400pa

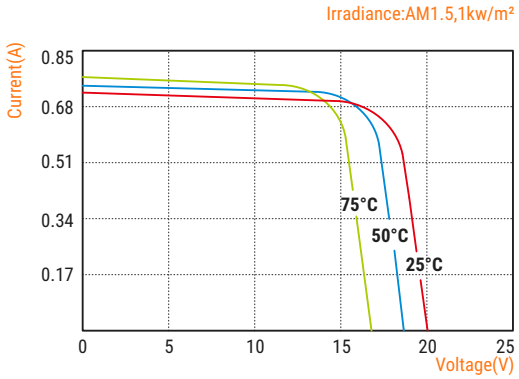
Positive Power Tolerance:
0~+5W

Warranty Information:
2 Year Product Workmanship

SOLAR PANEL

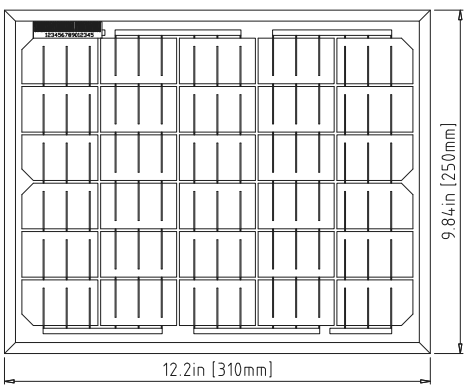
Electrical Characteristics	
Product code	010P3002A
Maximum power (Pmax)	10W
Voltage at Pmax (Vmp)	17.37V
Current at Pmax (Imp)	0.58A
Open-circuit voltage (Voc)	20.04V
Short-circuit current (Isc)	0.61A
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/ °C
Temperature 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%

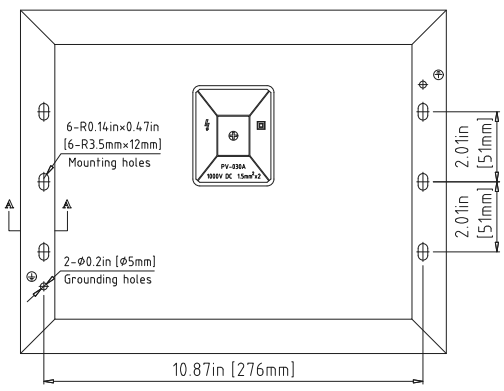
*STC: Irradiance 1000W/m², AM1.5 spectrum, module temperature 25°C
*NOCT:Nominal operating cell temperature (the data is only for reference)

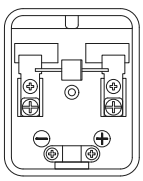


I-V Curves (STC)

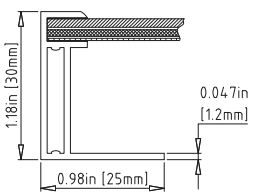
Specifications	
Cells	Monocrystalline silicon solar cell
No. of cells and connections	30(5X6)
Module dimension	9.84in.x12.20in.x1.18in.[250mmx310mmx30mm]
Weight	2.41lbs[1.09kg]
Packing information(Carton)	15.74in.x13.39in.x11.02in.[400mmx340mmx280mm]/(10pcs/ctn)







Junction Box
Top View (Lid Open)



Section A-A