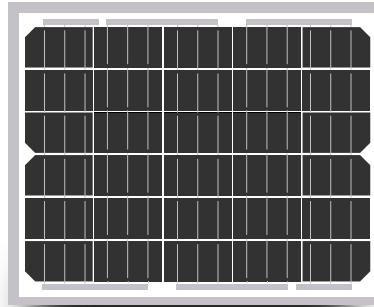




# ST-10P-12-R

## 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

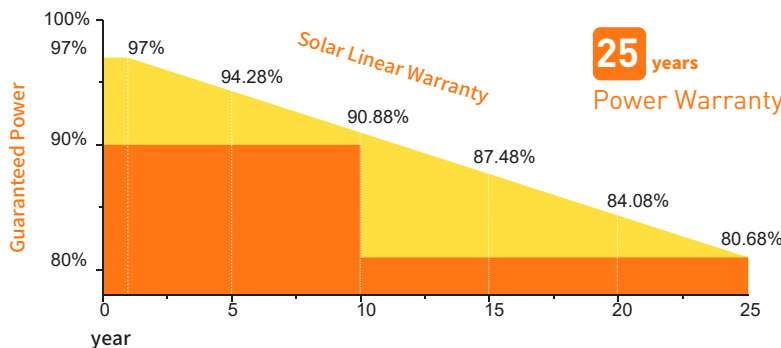
Advanced cell technology and qualified materials lead to high resistance to PID



### 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

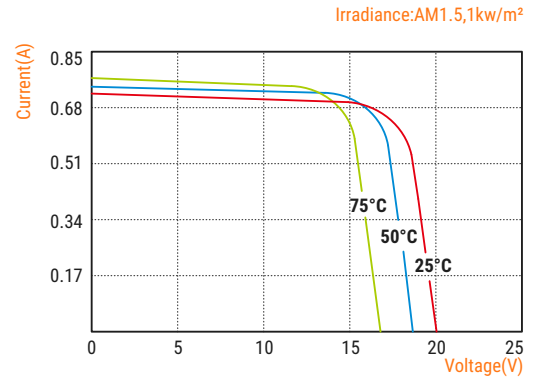
Warranty Information:  
2 Year Product Workmanship

## Electrical Characteristics

Product code	010P3003A
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

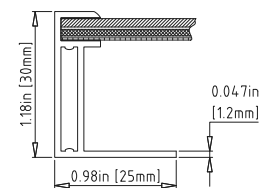
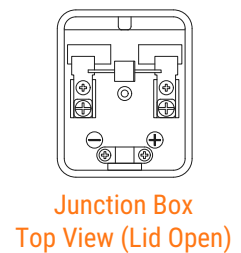
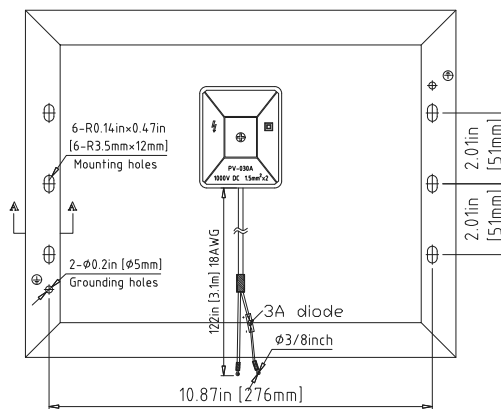
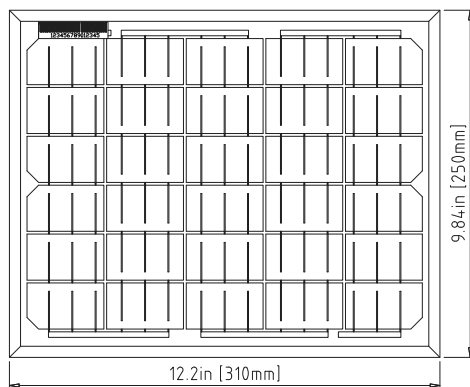
\*NOCT: Nominal operating cell temperature (the data is only for reference)



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)



Section A-A