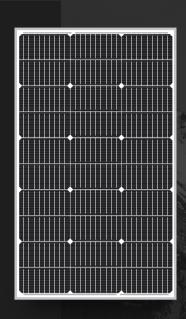


# ST-90P-12

### **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.



**MONOCRYSTALLINE MODULE** 

**MODULE EFFICIENCY** 

**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**



Positive mechanical load **Positive Power Tolerance**  >5400Pa 0~+5W

Warranty Information

100% 97%

90%

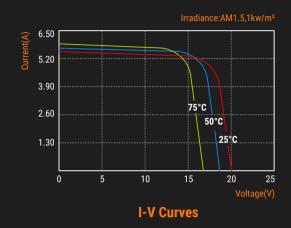
80%

2 Year Product Workmanship





Electrical Characteristics	
Product code	090P3001A
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	
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 ly580mm[22 83in ly80mm[3 15in ]/(1nc/ctn)

