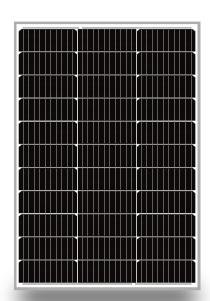


# ST-90Q-12

### **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.



# **33 CELL**

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

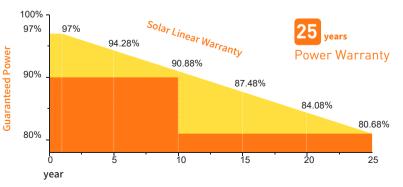


### Withstands Harsh **Environment**

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

## **Performance Warranty**





### Wind Load/Snow Load:

2400pa/5400pa

#### Positive Power Tolerance:

0~±3%

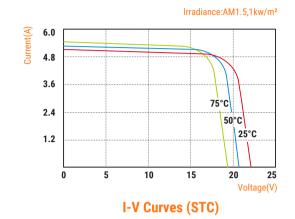
#### Warranty Information:

5 Years Product Workmanship



## **SOLAR PANEL**

Electrical Characteristics	
Maximum power (Pmax)	90W
Voltage at Pmax (Vmp)	19.01V
Current at Pmax (Imp)	4.74A
Open-circuit voltage (Voc)	22.31V
Short-circuit current (Isc)	5.05A
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 65°C
Maximum system voltage	1000V DC
Power tolerance	± 3%
·	



<sup>\*</sup>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	33(3X11)
Module dimension	32.87in.x22.83in.x1.18in.[835mmx580mx30mm]
Weight	12.41lbs[5.63kg]
Packing information(Carton)	34.65in.x24.61in.x2.56in.[880mmx625mmx65mm]/(1pc/ctn)

