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### **Technical parameter**

Maximum Power(W)	50W
Optimum Power Voltage(Vmp)	18.72V
Optimum Operating Current(Imp)	2.67A
Open Circuit Voltage(Voc)	22.83V
Short Circuit Current(Isc)	2.94A

### **Mechanical Characteristics**

Cell Type Monocrystalline	125x62.5mm
No of Cell	36 (4x9pcs)
Dimensions	636x554x25mm
Weight	4.2Kg
Front Glass	3.5mm,High Transmission, Low Iron, Tempered Glass
Junction box	IP65 Rated
Output Cable	TUV 1x4.0mm <sup>2</sup> /UL12AWG,Length:900mm

### **Temperature and Coefficients**

Operating Temperature(°C):	-40°C ~ + 85°C
Maximum System Voltage:	600V(UL)/1000V(IEC) DC
Maximum Rated Current Series:	15A
Temperature Coefficients of Pmax:	-0.47%
Temperature Coefficients of Voc:	-0.389%
Temperature Coefficients of Isc:	0.057%
Nominal Operating Cell Temperature (NOCT):	47+/-2°C

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## **Materials of solar panel**

- 1).Solar Cell-----Mono-crystalline solar cell 125\*125mm
- 2).Front Glass-----3.2mm, high transmission, low iron, tempered glass
- 3).EVA-----excellent anti-aging EVA
- 4).TPT-----TPT hot seal made of flame resistance
- 5).Frame-----anodized aluminum profile
- 6).Junction Box-----IP65 rated, high quality, with diode protection

Superiority: high quality anodized aluminum frame, high efficiency long life, easy installation, strong wind resistance, strong hail resistance.

## **Features**

1. High cell efficiency with quality silicon materials for long term output stability
2. Strictly quality control ensure the stability and reliability, totally 23 QC procedures
3. High transmittance low iron tempered glass with enhanced stiffness and impact resistance
4. Both Poly-crystalline and Mono-crystalline
5. Excellent performance in harsh weather
6. Outstanding electrical performance under high temperature and low irradiance

## **Quality assurance testing**

Thermal cycling test

Thermal shock test

Thermal/Freezing and high humidity cycling test

Electrical isolation test

Hail impact test

Mechanical, wind and twist loading test

Salt mist test

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Light and water-exposure test

Moist carbon dioxide/sulphur dioxide

