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## Poly-crystalline Solar Panel 3W

### Technical parameter

Maximum Power(W)	3W
Optimum Power Voltage(Vmp)	9V
Optimum Operating Current(Imp)	0.34A
Open Circuit Voltage(Voc)	10.8V
Short Circuit Current(Isc)	0.37A

### Mechanical Characteristics

Cell Type	Polycrystalline
No of Cell	18 (2x9pcs)
Dimensions	145x245x18mm
Weight	0.52KGS
Front Glass	3.2mm,High Transmission, Low Iron, Tempered Glass

### Temperature and Coefficients

Operating Temperature(°C):	-40°C ~ + 85°C
Maximum System Voltage:	600V(UL)/1000V(IEC) DC
Maximum Rated Current Series:	10A
Temperature Coefficients of Pmax:	-0.435%
Temperature Coefficients of Voc:	-0.35%
Temperature Coefficients of Isc:	0.043%

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Nominal Operating Cell Temperature (NOCT): 47+/-2°C

### **Materials of solar panel**

- 1).Solar Cell-----Polycrystalline solar cell 156\*156mm
- 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

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Salt mist test

Light and water-exposure test

Moist carbon dioxide/sulphur dioxide

