

## Specification of the solar panel

**62\*120\*3mm 2V/400mA Polycrystalline PET solar panel**

### 1. Volumetric Table 材积表

尺寸(长 x 宽 x 高) Dimension(L*W*H)	62*120*3MM ± 0.5
重量 Weight	0.038KG
面积 Area	0.0074m <sup>2</sup>

### 2. Temperature Coefficients 温度系数

最大功率温度系数 Max. Power Temp.	-0.37% □
开路电压温度系数 Open Circuit Voltage Temp.	-0.34% □
短路电流温度系数 Short Circuit Current Temp.	0.09% □
电池片额定工作温度 Nominal Operating Cell Temp.	47□
测试环境(STC) Standard Test Conditions(STC)	25□, 1KW m <sup>2</sup> , AM1.5 标准光强 35000LUX

### 3. Technical Parameter 技术参数

电池片数量 Nb. of cells and Connection	4pcs in series
排片方式 Connections of cells	4
额定功率 Rated Power	0.8W
开路电压 Open Circuit Voltage(Voc)	2.2V
工作电压 Operating Voltage(Vpm)	2V
短路电流 Short Circuit Current(Isc)	440mA
工作电流 Operating Current(Ipm)	400mA
最大系统电压 Max. System Voltage(V)	1000V
模组工作温度范围 Module Operating Temperature	-30□ - +90□
功率误差 Performance Tolerance	± 3%

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### Manufacturing process of the solar panel

- 1, Cutting the solar cell into small pieces 20\*58mm
- 2, Welding the 20\*58mm solar cell in series
- 3, Adhering the solar cell on the PCB board and putting PET, EVA on solar cell
- 4, Laminating the PET+EVA+solar cell+PCB together into a solar panel
- 5, Testing the solar panel to make sure voltage and current is rated
- 6, Cleaning and Packing the solar panel

### Material List

Name	size	Quantity	Manufacturer
Solar cell	58X20mm	8pcs	JSC Soli Tek Cells, Lithuania
PET	65X130mm	1pcs	Foster Plastic Company, China
EVA	65X130mm	2pcs	Foshan DuoLe Company, China
PCB	61X120mm	1pcs	Jiangxi Caida PCB technology Limited, China
Screws	5*5*10mm	2pcs	Shenzhen Changxia Mental company China
Welding copper tap	0.3*2mm	20cm	Shenzhen YiDa Company, China