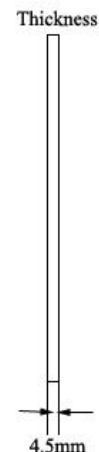
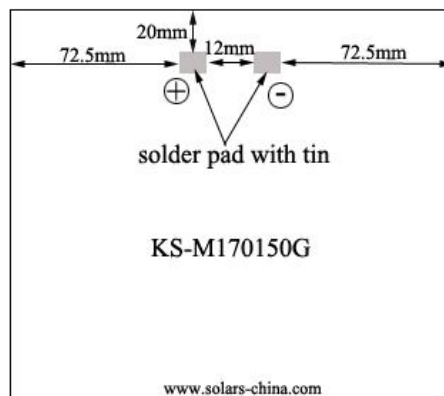
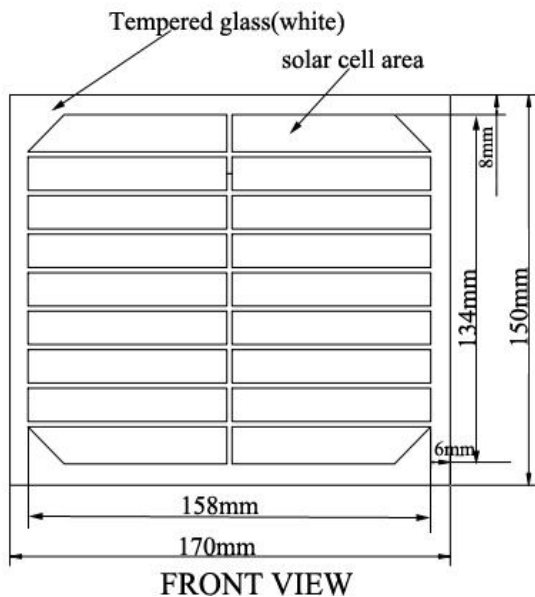


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## 3 watt High Efficiency Photovoltaic Panel

Model No: **KS-M170150G**



### Electrical Characteristics

Cell Type	Monocrystalline silicon solar cell
Norminal Power	P <sub>max</sub> =3W
Open Circuit Voltage	V <sub>oc</sub> =10.8V
Short Circuit Current	I <sub>sc</sub> =363mA
Voltage at P <sub>max</sub>	V <sub>m</sub> =9V
Current at P <sub>max</sub>	I <sub>m</sub> =333mA
Standard Test Conditions(STC):Irradiance:1000W/m <sup>2</sup> , 25°C, AM 1.5 Power tolerance: ±3%	

### Temperature coefficient

NOCT	45°C±2°C
Temp.Coefficient of I <sub>sc</sub>	(0.045±0.01)%/°C
Temp.Coefficient of V <sub>oc</sub>	-(0.34±0.01)%/°C
Temp.Coefficient of Power	-(0.47±0.05)%/°C
NOCT: Nominal Operation Cell Temperature	

### Tested Operating Conditions

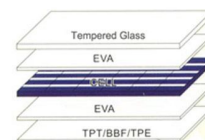
Surface Maximum Load Capacity	60m/s(200kg/sq.m)
Allowable Hail Load	227g steel ball fall down from 1m height
Operating Temperature	-40°C to 85°C
Storage Temperature & Humidity	-40°C to 85°C & 10~90%

### Mechanical Specifications

Dmensions(H*W*T) as above	170x150x4.5mm(±0.2mm)
Encapsulation	Glass/EVA/Cells/EVA/TPT
Front Cover	PV Tempered Glass, thickness: 3.2mm, Low Iron
Efficiency	≥18%
Output Lead Wire	No
Frame and Junciton Box	No
Bar-line	White
Purpose	Used to charge any 6V rechargeable battery, or any 6V application.

### Figure of Cell Structure

Structure of Tempered Glass Lamination



### Warranties

Power output more than 90% for 10years  
Power output more than 80% for 20years  
Work life: 15 years

THE TECHNICAL FILES PROVIDED BY CHINA SOLAR LTD

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