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**Solar Panel Guide**

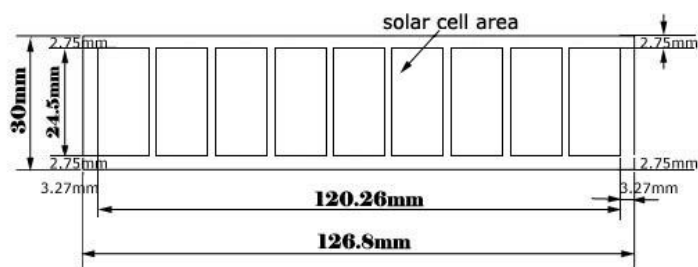
**Specification Data Sheet**

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## 5.5V 85mA Mini Photovoltaic Panel

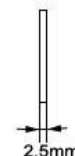
**Model No: KS-M12730P**



**FRONT VIEW**



**BACK VIEW**



**SIDE VIEW**

### Electrical Characteristics

Cell Type	Monocrystalline silicon solar cell
Norminal Power	Pmax=0.47W
Open Circuit Voltage	Voc=5.5V
Short Circit Current	Isc=93mA
Voltage at Pmax	Vm=5.5V
Current at Pmax	Im=85mA
Standard Test Conditions(STC):Irradiance:1000W/m <sup>2</sup> , 25℃, AM 1.5	
Power tolerance: ±5%	

### Temperature coefficient

NOCT	45℃±2℃
Temp.Coefficient of Isc	(0.045±0.01)%/℃
Temp.Coefficient of Voc	-(0.34±0.01)%/℃
Temp.Coefficient of Power	-(0.47±0.05)%/℃
NOCT: Nominal Operation Cell Temperature	

### Tested Operating Conditions

Operating Temperature	-40℃ to 90℃
Storage Temperature	-40℃ to 90℃
Using Condition: Outdoor under the sunlight without covering	

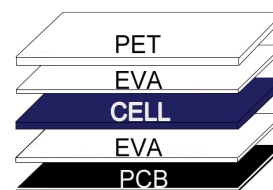
### Warranties

Power output more than 90% for 10years	
Operating life: 5 years	

### Mechanical Specifications

Dmensions(LxWxT) as above	126.8x30x2.5mm(±0.2mm)
Front Cover	PET/ EVA/ Solar Cell
Back Cover	Fiberglass board/EVA/TPT
Efficiency	≥ 18.6%
Output Lead Wire	With solder wire,26AWG,30mm long
Frame and Junciton Box	No Frame, no junction box
Weight	12g
Purpose	Used to charge any 3.7V rechargeable battery, or any 3.7V application.

### Figure of Cell Structure



### Warning

- Cannot touch with anything strong cauterant
- Avoid scraping by something hard when using
- Cannot bend on delivery and installation

**THE TECHNICAL FILES PROVIDED BY CHINA SOLAR LTD**

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