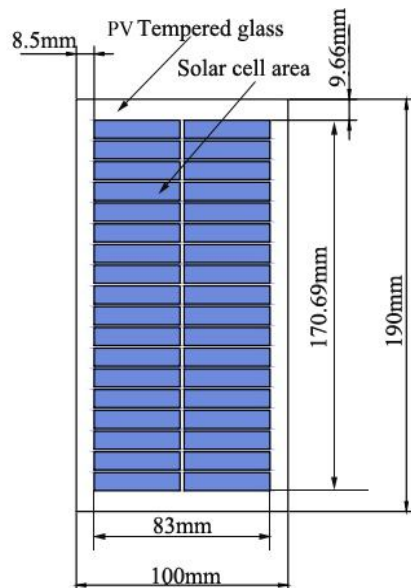


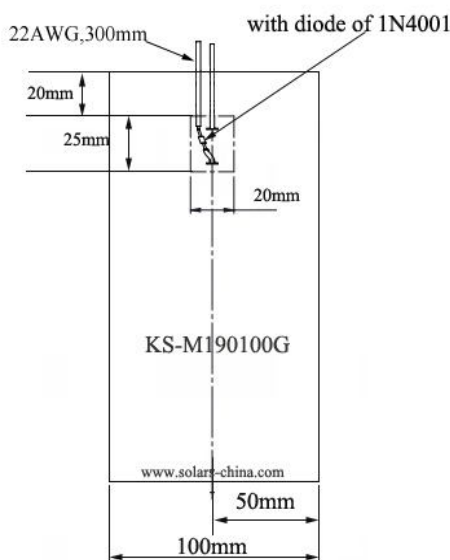
[Http://www.solars-china.com](http://www.solars-china.com)

## 2 watt High Efficiency Photovoltaic Panel

Model No: **KS-M190100G**



FRONT VIEW



BACK VIEW

Thickness



SIDE VIEW

### Electrical Characteristics

Cell Type	Monocrystalline silicon solar cell
Norminal Power	Pmax=2W
Open Circuit Voltage	Voc=21.6V
Short Circit Current	Isc=121mA
Voltage at Pmax	Vm=18V
Current at Pmax	Im=111mA
Standard Test Conditions(STC):Irradiance:1000W/m <sup>2</sup> , 25°C, AM 1.5 Power tolerance: ±3%	

### Mechanical Specifications

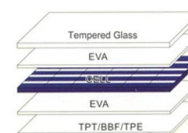
Dmensions(H*W*T) as above	190x100x5mm(±0.2mm)
Encapsulation	Glass/EVA/Cells/EVA/TPT
Front Cover	PV Tempered Glass, thickness: 3.2mm
Efficiency	≥18%
Output Lead Wire	22AWG,300mm long, with one Diode
Frame and Junciton Box	No
Weight	185g
Purpose	To charge 12V battery

### Temperature coefficient

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

### Figure of Cell Structure

Structure of Tempered Glass Lamination



### 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 90°C
Storage Temperature	-40°C to 90°C

### 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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