

POLYCRYSTALLINE SOLAR PANEL

TS-S90P

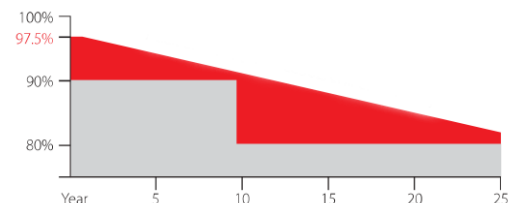


- High conversion efficiency
- Extremely environmental testing
- Salt mist corrosion resistant
- IP67 Junction box
- Strong compressive strength
- Fire test approved
- PID Resistant

GIVING YOU MORE

- 3% positive tolerance
- Series of internal harsh tests
- Authorised photovoltaic certificates
- Linear performance warranty

Top Solar was established in 2008 and is a hi-tech corporation with its core business in R&D, manufacturing and sale of high efficiency solar panel.



www.topsolar-energy.com

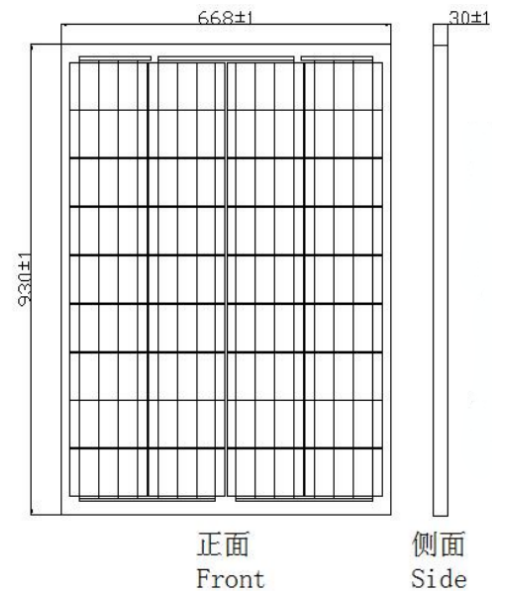
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Electrical Characteristics under STC*

Model No.:	TS-S90P
Maximum Power-Pmax(Wp)	90W
Voltage at Maximum Power-Vmp(V)	18.83V
Current at Maximum Power-Imp(A)	4.78A
Open Circuit Voltage-Voc(V)	22.6V
Short Circuit Current-Isc(A)	5.07A
Solar Panel Efficiency(%)	14.48
Power Tolerance(%)	0/+3

Mechanical Characteristics

Cell Type	Polycrystalline	156*156mm
Number of Cells	36(4*9)	
Dimension	930*668*30mm	
Weight	7.0kg	
Front Glass	Low Iron Tempered Glass	
Encapsulant	EVA	
Frame	Anodized Aluminum Alloy	



Temperature Characteristics

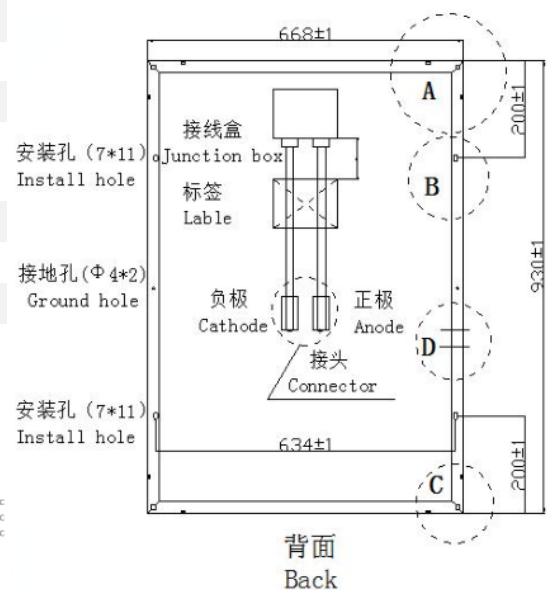
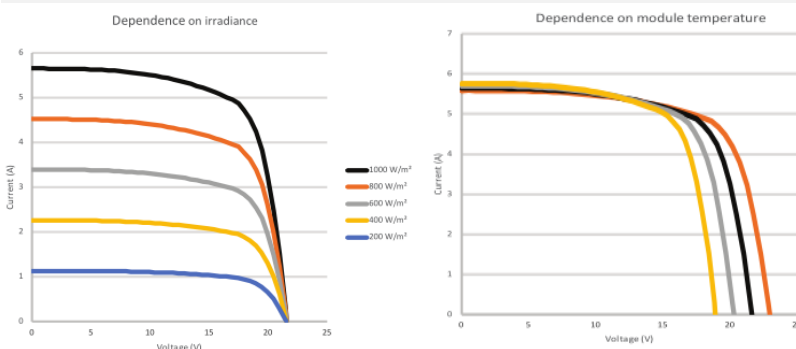
NOCT*	45±2°C
Temperature Coefficient of Pmax(%)	-0.40/°C
Temperature Coefficient of Voc(%)	-0.31/°C
Temperature Coefficient of Isc(%)	0.04/°C

Maximum System Ratings

Operating Temperature	-40°C to +85°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	15A

Warranty

12 years product warranty
12 years warranty on 90% power output
25 years warranty on 80% power output



*STC(Standard Testing Conditions):Irradiance 1000W/m²,cell temperature 25°C,AM=1.5 *NOCT(Nominal Operating Cell Temperature):Irradiance 800W/m², ambient temperature 20°C,wind speed 1m/s

The specifications in this datasheet are subjected to change without prior notice