



POLYCRYSTALLINE SOLAR PANEL



TS-S100P



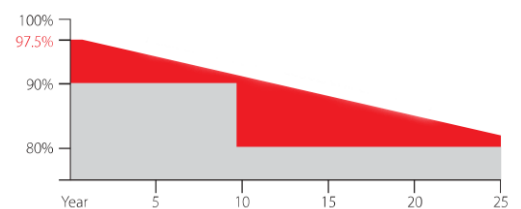
-  High conversion efficiency
-  Extremely environmental testing
-  Salt mist corrosion resistant
-  IP67 Junction box
-  Strong compressive strength
-  Fire test approved
-  PID Resistant

GIVING YOU MORE

-  3% positive tolerance
-  Authorised photovoltaic certificates

-  Series of internal harsh tests
-  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.



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Electrical Characteristics under STC*

Model No.:	TS-S100P
Maximum Power-Pmax(Wp)	100W
Voltage at Maximum Power-Vmp(V)	18.5V
Current at Maximum Power-Imp(A)	5.43A
Open Circuit Voltage-Voc(V)	22.14V
Short Circuit Current-Isc(A)	5.78A
Solar Panel Efficiency(%)	13.4
Power Tolerance(%)	0/+3

Mechanical Characteristics

Cell Type	Polycrystalline	156*156mm
Number of Cells	36(4*9)	
Dimension	1100*678*35mm	
Weight	8.8kg	
Front Glass	Low Iron Tempered Glass	
Encapsulant	EVA	
Frame	Anodized Aluminum Alloy	

Temperature Characteristics

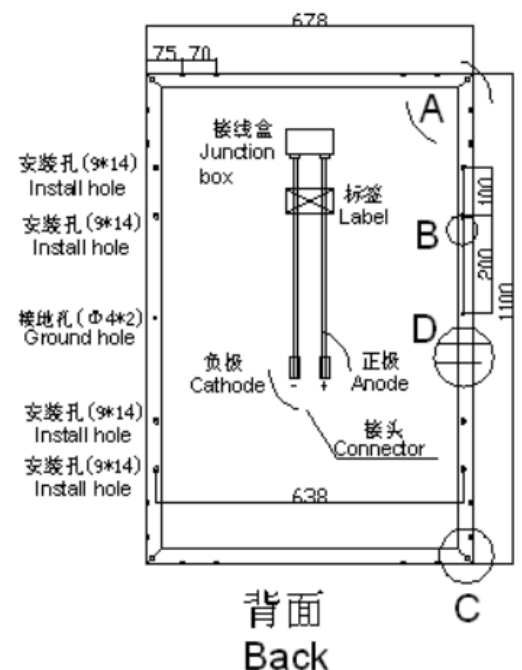
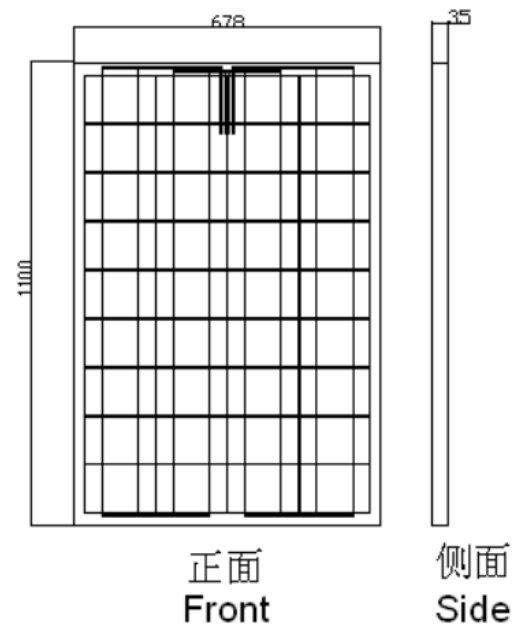
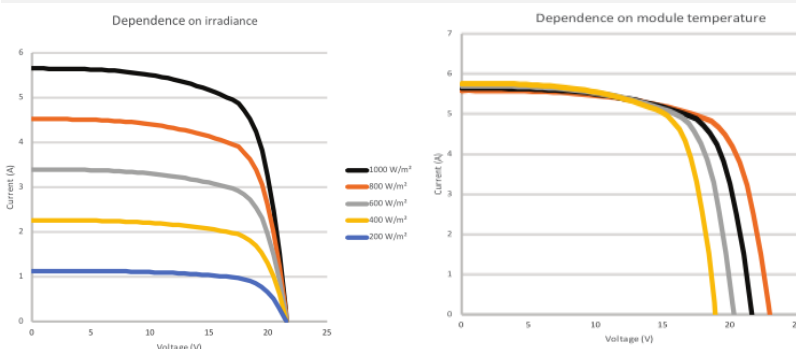
NOCT*	45±2°C
Temperature Coefficient of Pmax(%)	-0.40/°C
Temperature Coefficient of Voc(%)	-0.31/°C
Temperature Coefficient of Isc(%)	0.04/°C

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