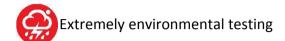
POLYCRYSTALLINE SOLAR PANEL

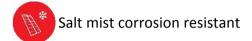




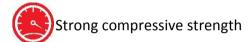


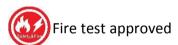


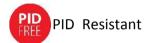












GIVING YOU MORE



3% positive tolerance



Authorised photovoltaic certificates

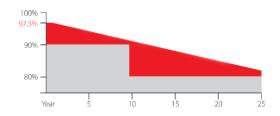


Series of internal harsh tests



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.



www.topsolar-energy.com

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Tel:86 755 85224431 Fax:86 755 28167996 Email:info@topsolar-energy.com



POLYCRYSTALLINE SOLAR PANEL

TS-S140P

Electrical Characteristics under STC*

Model No.:	TS-S140P
Maximum Power-Pmax(Wp)	140W
Voltage at Maximum Power-Vmp(V)	18.28V
Current at Maximum Power-Imp(A)	7.66A
Open Circuit Voltage-Voc(V)	21.89V
Short Circuit Current-Isc(A)	8.19A
Solar Panel Efficiency(%)	14.1
Power Tolerance(%)	0/+3

Mechanical Characteristics

Wicefiamical Characteristics	
Cell Type	Polycrystalline 156*156mm
Number of Cells	36(4*9)
Dimension	1485*668*35mm
Weight	11.60kg
Front Glass	Low Iron Tempered Glass
Encapsulant	EVA
Frame	Anodized Aluminum Alloy

Temperature Characteristics

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

Maximum System Ratings

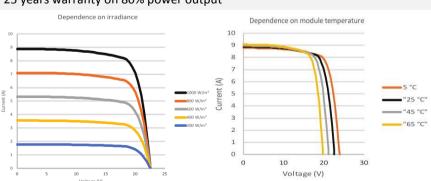
Operating Temperature	− 40°C to +85°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	15A

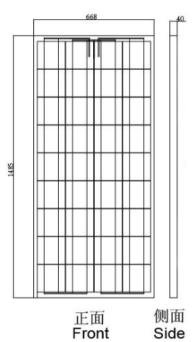
Warranty

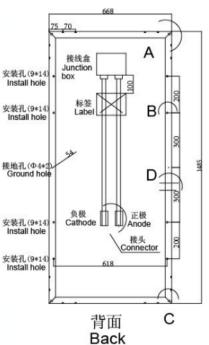
12 years product warranty

12 years warranty on 90% power output

25 years warranty on 80% power output







^{*}STC(Standard Testing Conditions):Irradiance $1000W/m^2$, cell temperature $25^{\circ}C$,AM=1.5 *NOCT(Nominal Operating Cell Temperature):Irradiance $800W/m^2$, ambient temperature $20^{\circ}C$, wind speed 1m/s The specifications in this datasheet are subjected to change without prior notice