

POLYCRYSTALLINE SOLAR PANEL

TS-S20P



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

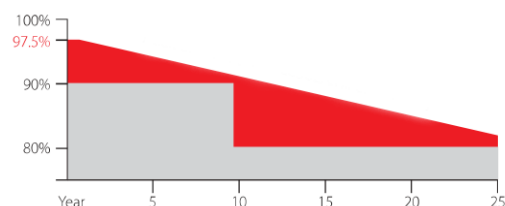


Authorised photovoltaic certificates



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

Shenzhen Top Solar Energy Co.,Ltd.

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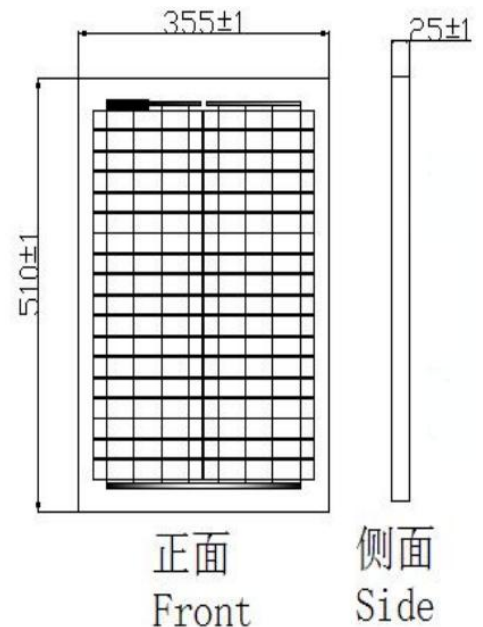
Tel:86 755 85224431 Fax:86 755 28167996 Email:info@topsolar-energy.com

Electrical Characteristics under STC*

Model No.:	TS-S20P
Maximum Power-P _{max} (Wp)	20W
Voltage at Maximum Power-V _{mp} (V)	18.3V
Current at Maximum Power-I _{mp} (A)	1.10A
Open Circuit Voltage-V _{oc} (V)	21.96V
Short Circuit Current-I _{sc} (A)	1.17A
Solar Panel Efficiency(%)	11.04
Power Tolerance(%)	0/+3

Mechanical Characteristics

Cell Type	Polycrystalline	156*156mm
Number of Cells	36(2*18)	
Dimension	510*355*25mm	
Weight	2.2kg	
Front Glass	Low Iron Tempered Glass	
Encapsulant	EVA	
Frame	Anodized Aluminum Alloy	



Temperature Characteristics

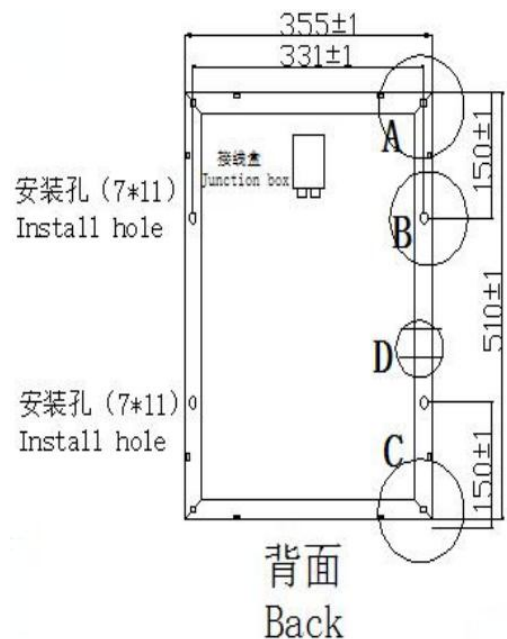
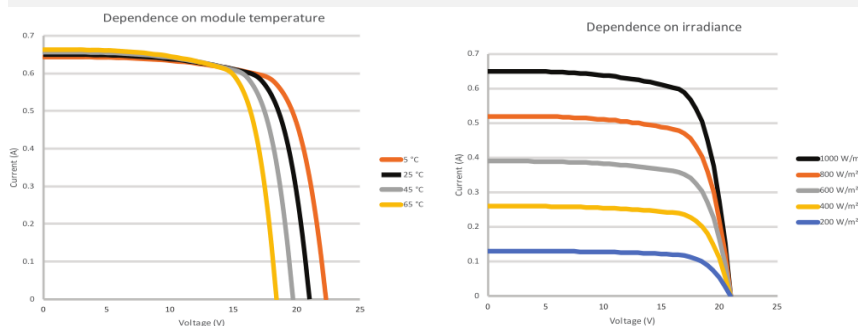
NOCT*	45±2°C
Temperature Coefficient of P _{max} (%)	-0.40/°C
Temperature Coefficient of V _{oc} (%)	-0.31/°C
Temperature Coefficient of I _{sc} (%)	0.04/°C

Maximum System Ratings

Operating Temperature	-40°C to +85°C
Maximum System Voltage	600V 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