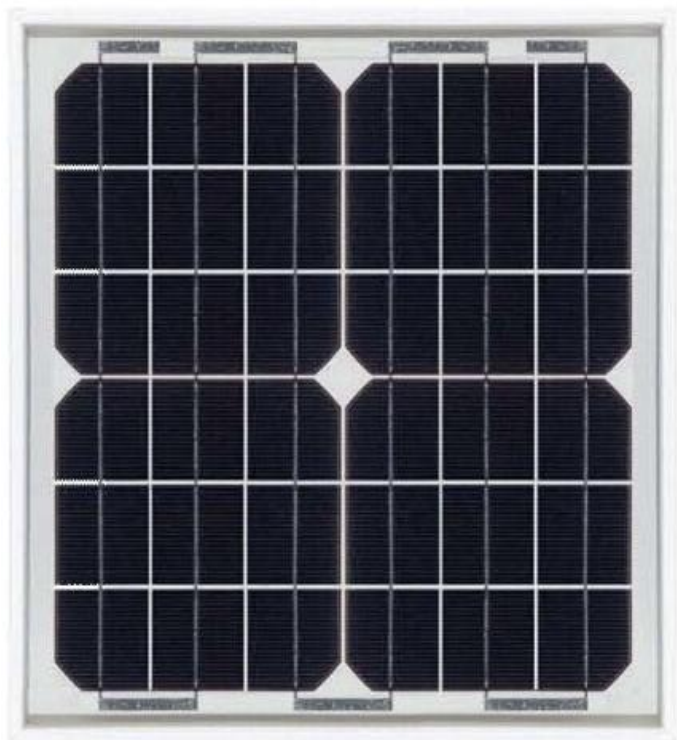


MONOCRYSTALLINE SOLAR PANEL

TS-S15M



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

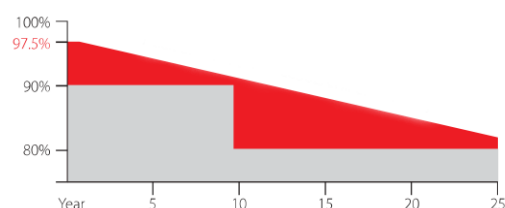


Authorised photovoltaic certificates



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.

F4,Building C,Zhonghengxinda Industrial Park,

Shajing Town,Baoan District,Shenzhen City,Guangdong Province,China

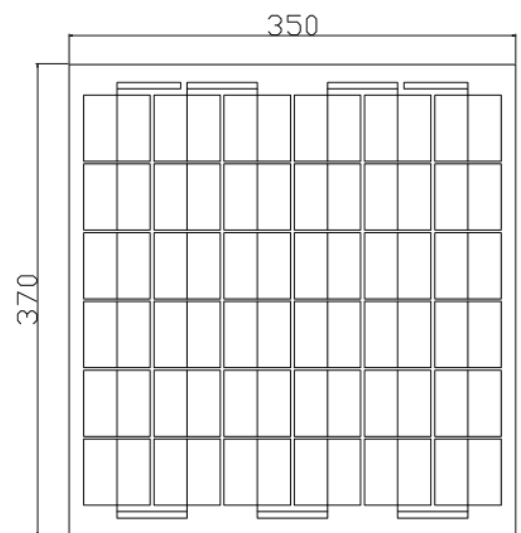
Tel:86 755 85224431 Fax:86 755 28167996 Email:info@topsolar-energy.com

Electrical Characteristics under STC*

Model No.:	TS-S15M
Maximum Power-Pmax(Wp)	15W
Voltage at Maximum Power-Vmp(V)	18.2V
Current at Maximum P0wer-Imp(A)	0.82A
Open Circuit Voltage-Voc(V)	22V
Short Circuit Current-Isc(A)	0.91A
Solar Panel Efficiency(%)	10.8
Power Tolerance(%)	0/+3

Mechanical Characteristics

Cell Type	Monocrystalline	156*156mm
Number of Cells	36(6*6)	
Dimension	370*350*25mm	
Weight	2.2kg	
Front Glass	Low Iron Tempered Glass	
Encapsulant	EVA	
Frame	Anodized Aluminum Alloy	



Temperature Characteristics

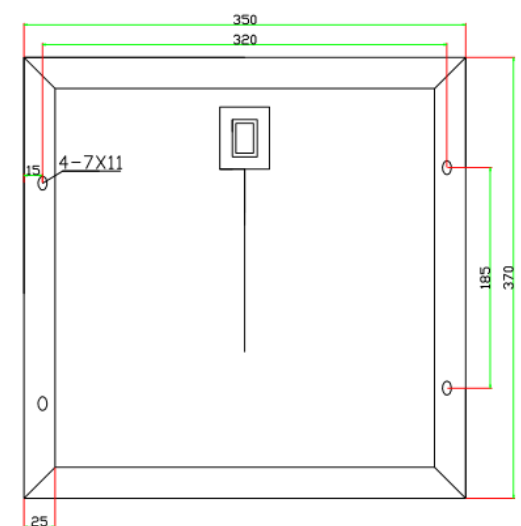
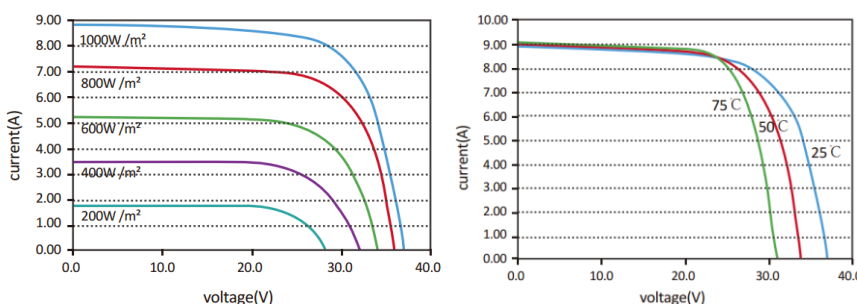
NOCT*	45±2℃
Temperature Coefficient of Pmax(%)	-0.40/℃
Temperature Coefficient of Voc(%)	-0.31/℃
Temperature Coefficient of Isc(%)	0.04/℃

Maximum System Ratings

Operating Temperature	-40℃ to +85℃
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℃,AM=1.5 *NOCT(Nominal Operating Cell Temperature):Irradiance 800W/m², ambient temperature 20℃,wind speed 1m/s

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