

MONOCRYSTALLINE SOLAR PANEL

TS-S310M



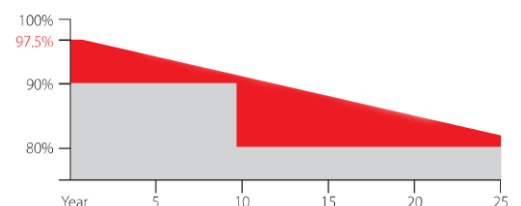
- High conversion efficiency
- Extremely environmental testing
- Salt mist corrosion resistant
- IP67 Junction box
- Strong compressive strength
- Fire test approved
- PID Resistant

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.



www.topsolar-energy.com

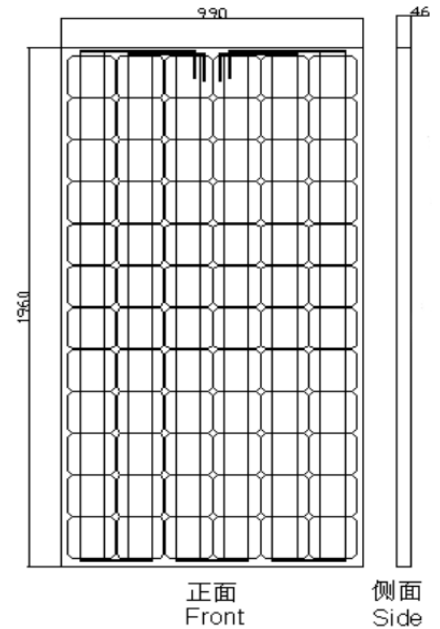
Shenzhen Top Solar Energy Co.,Ltd.
F4,Building C,Zhonghengxinda Industrial Park,
Shajing Town,Baoan District,Shenzhen City,Guangdong Province,China
Tel:86 755 85224431 Fax:86 755 28167996 Email:info@topsolar-energy.com

Electrical Characteristics under STC*

Model No.:	TS-S310M
Maximum Power-Pmax(Wp)	310W
Voltage at Maximum Power-Vmp(V)	38.32V
Current at Maximum Power-Imp(A)	8.09A
Open Circuit Voltage-Voc(V)	45.01V
Short Circuit Current-Isc(A)	8.66A
Solar Panel Efficiency(%)	16.0
Power Tolerance(%)	0/+3

Mechanical Characteristics

Cell Type	Monocrystalline	156*156mm
Number of Cells	72(6*12)	
Dimension	1960*990*46mm	
Weight	23.0kg	
Front Glass	Low Iron Tempered Glass	
Encapsulant	EVA	
Frame	Anodized Aluminum Alloy	



Temperature Characteristics

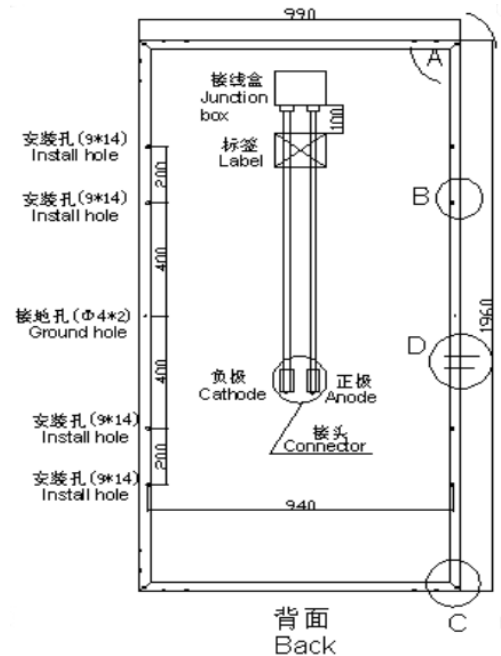
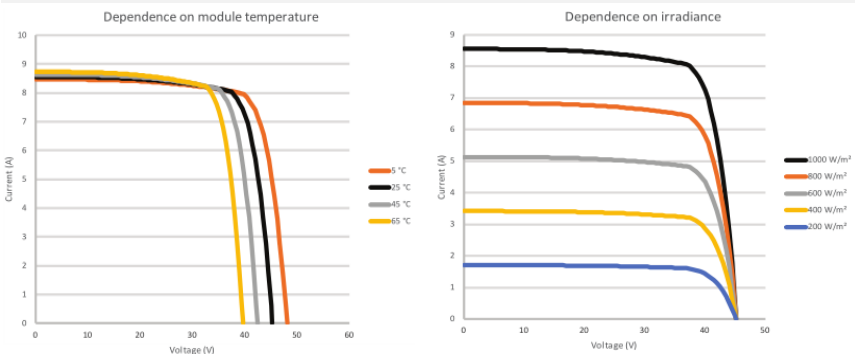
NOCT*	45±2℃
Temperature Coefficient of Pmax(%)	-0.40/℃
Temperature Coefficient of Voc(%)	-0.31/℃
Temperature Coefficient of Isc(%)	0.04/℃

Maximum System Ratings

Operating Temperature	-40℃ to +85℃
Maximum System Voltage	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℃,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