

MONOCRYSTALLINE SOLAR PANEL

TS-S230M

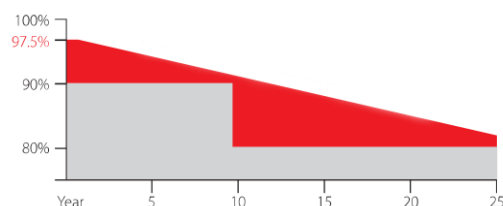


- High conversion efficiency
- Extremely environmental testing
- Salt mist corrosion resistant
- IP67 Junction box
- Strong compressive strength
- Fire test approved
- PID Resistant

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.



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Electrical Characteristics under STC*

Model No.:	TS-S230M
Maximum Power-Pmax(Wp)	230W
Voltage at Maximum Power-Vmp(V)	28.65V
Current at Maximum Power-Imp(A)	8.03A
Open Circuit Voltage-Voc(V)	33.77V
Short Circuit Current-Isc(A)	8.59A
Solar Panel Efficiency(%)	15.6
Power Tolerance(%)	0/+3

Mechanical Characteristics

Cell Type	Monocrystalline	156*156mm
Number of Cells	54(6*9)	
Dimension	1482*992*40mm	
Weight	17.0kg	
Front Glass	Low Iron Tempered Glass	
Encapsulant	EVA	
Frame	Anodized Aluminum Alloy	

Temperature Characteristics

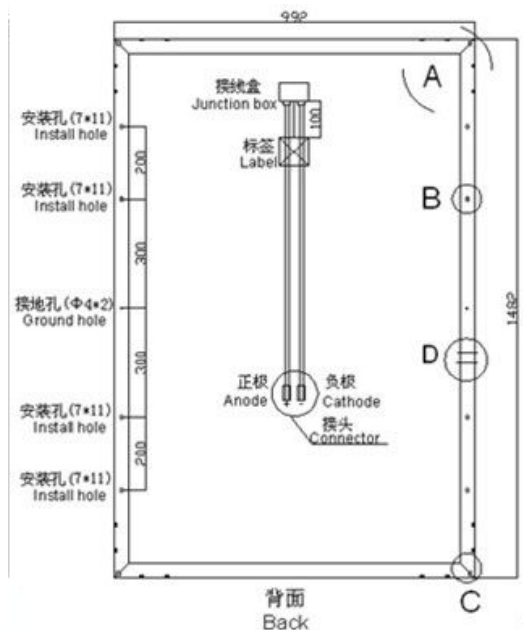
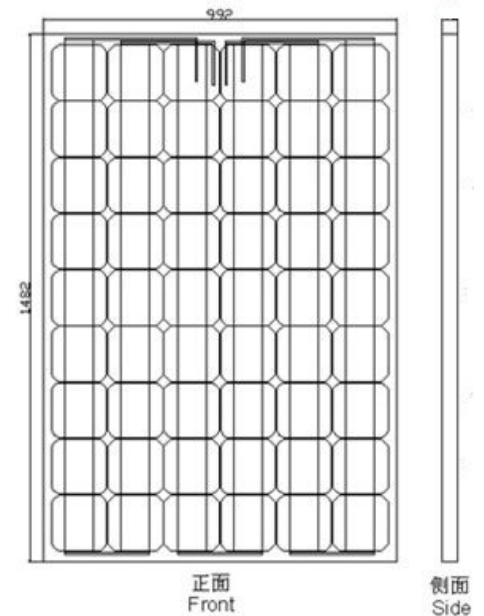
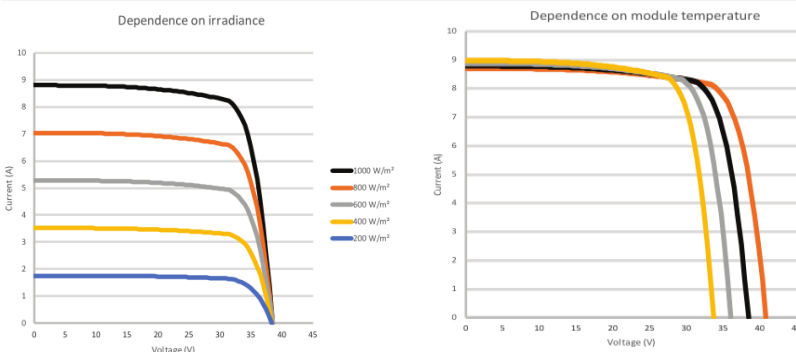
NOCT*	45±2℃
Temperature Coefficient of Pmax(%)	-0.40/℃
Temperature Coefficient of Voc(%)	-0.31/℃
Temperature Coefficient of Isc(%)	0.04/℃

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