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# **EnergyPal**

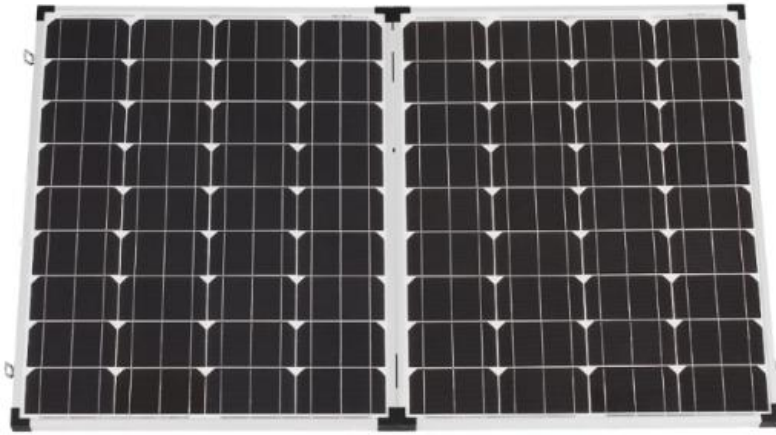
## **Solar Panel Guide Specification Data Sheet**

**Shenzhen Top Solar Energy Co., Ltd.  
Foldable TS-FR150M  
TS-FR150M**

Also available on the web at  
[EnergyPal.com/shenzhen-top-solar-energy-co-ltd-solar-panels/ts-fr150m](http://EnergyPal.com/shenzhen-top-solar-energy-co-ltd-solar-panels/ts-fr150m)



# FOLDING SOLAR PANEL



## TS-FR150M

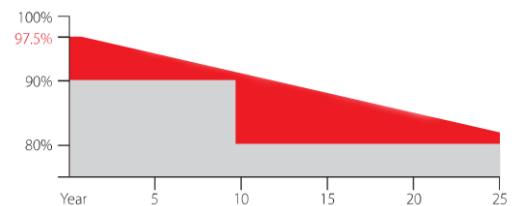


-  High conversion efficiency
-  Extremely environmental testing
-  Salt mist corrosion resistant
-  IP67 Junction box
-  Strong compressive strength
-  Fire test approved
-  PID Resistant

## GIVING YOU MORE

-  3% positive tolerance
-  Authorised photovoltaic certificates

-  Series of internal harsh tests
-  Linear performance warranty



[www.topsolar-energy.com](http://www.topsolar-energy.com)

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### Electrical Characteristics under STC\*

Model No.:	TS-FR150M
Maximum Power-Pmax(Wp)	2*75W
Voltage at Maximum Power-Vmp(V)	18.69V
Current at Maximum Pwer-Imp(A)	8.03A
Open Circuit Voltage-Voc(V)	22.43V
Short Circuit Current Isc(A)	8.83A
Solar Panel Efficiency(%)	15.12
Power Tolerance(%)	0/+3

### Mechanical Characteristics

Cell Tye	Monocrystalline	156*156mm
Number of Cells	72(4*9*2pcs)	
Folded Dimension	770*668*60mm	
Weight	13.8kg	
Frongt Glass	Low Iron Tempered Glass	
Encapsulant	EVA	
Frame	Anodized Aluminum Alloy	

### Temperature Characteristics

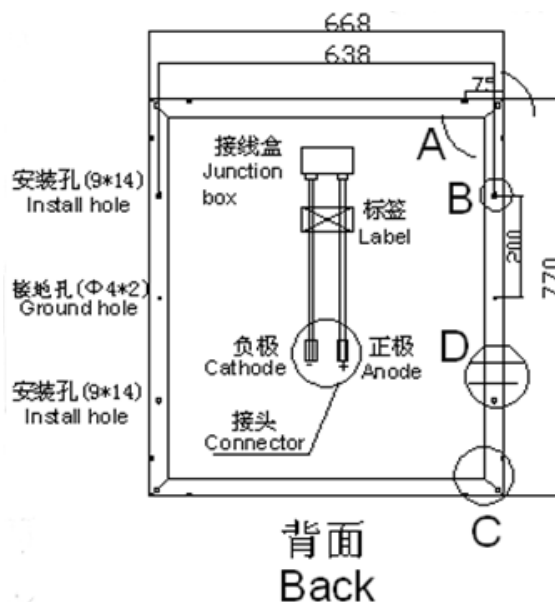
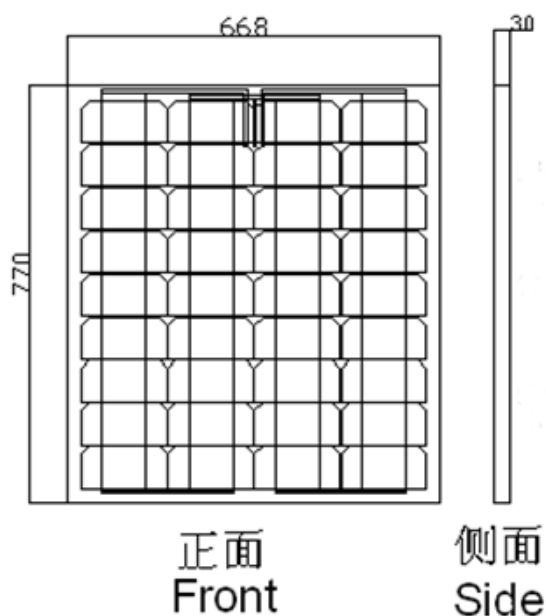
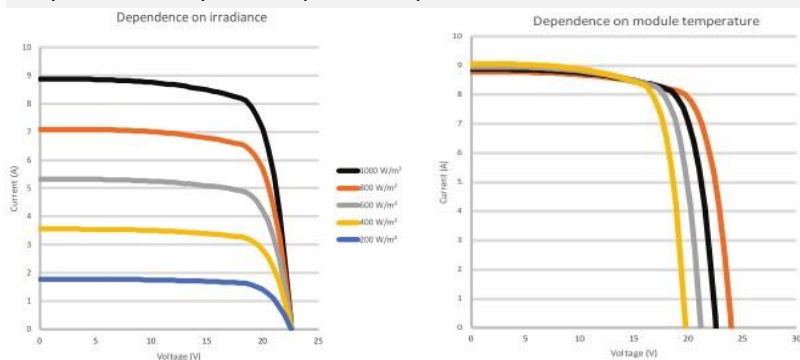
NOCT*	47±2°C
Temperature Coefficient of Pmax(%)	-0.45/°C
Temperature Coefficient of Voc(%)	-0.35/°C
Temperature Coefficient of Isc(%)	0.04/°C

### 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<sup>2</sup>,cell temperatre 25°C,AM=15  
ambient temperature 20°C,wind speed 1m/s

\*NOCT(Nominal Operating Cell Temperature):Irradiance 800W/m<sup>2</sup>