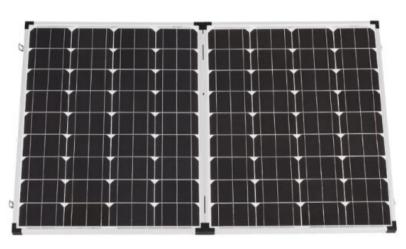
## **FOLDING SOLAR PANEL**

### TS-FR120M





High conversion efficiency

Extremely environmental testing

Salt mist corrosion resistant

IP67 Junction box

Strong compressive strength

Fire test approved

PID PID Resistant

# **GIVING YOU MORE**



3% positive tolerance



Series of internal harsh tests

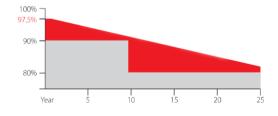


Authorised photovoltaic certificates



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



## **FOLDING SOLAR PANEL**

TS-FR120M

#### **Electrical Characteristics under STC\***

Model No.:	TS-FR120M
Maximum Power-Pmax(Wp)	2*60W
Voltage at Maximum Power-Vmp(V)	36V
Current at Maximum Power-Imp(A)	3.34A
Open Circuit Voltage-Voc(V)	43.2V
Short Circuit Current-Isc(A)	3.67A
Solar Panel Efficiency(%)	13.71
Power Tolerance(%)	0/+3

#### **Mechanical Characteristics**

Cell Type	Monocrystalline 156*156mm
Number of Cells	72(4*9*2pcs)
Folded Dimension	655*668*60mm
Weight	12.0kg
Front Glass	Low Iron Tempered Glass
Encapsulant	EVA
Frame	Anodized Aluminum Alloy

## **Temperature Characteristics**

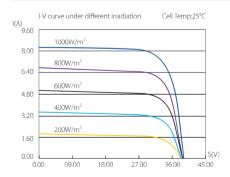
NOCT*	45±2℃
Temperature Coefficient of Pmax(%)	−0.40/°C
Temperature Coefficient of Voc(%)	–0.31/℃
Temperature Coefficient of Isc(%)	<b>0.04/</b> ℃

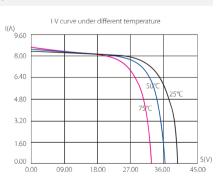
#### **Maximum System Ratings**

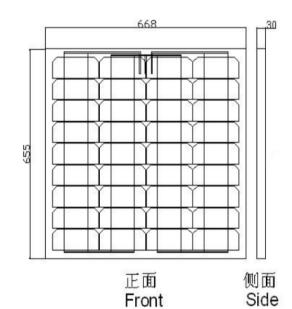
Operating Temperature	<b>–40</b> °C to +85°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	15A

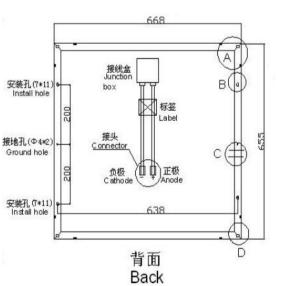
### Warranty

- 12 years product warranty
- 12 years warranty on 90% power output
- 25 years warranty on 80% power output









<sup>\*</sup>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