

**For a Free Quote:**

**Web: [EnergyPal.com/solar](http://EnergyPal.com/solar)**

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# **EnergyPal**

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

**Shenzhen Top Solar Energy Co., Ltd.  
PET flexible TS-FS180  
TS-FS180**

Also available on the web at  
[EnergyPal.com/shenzhen-top-solar-energy-co-ltd-solar-panels/ts-fs180](http://EnergyPal.com/shenzhen-top-solar-energy-co-ltd-solar-panels/ts-fs180)

# FLEXIBLE SOLAR PANEL

## TS-FS180



-  More energy each day
-  Flexible
-  High resistance and Walking on panels
-  Microcracking managing
-  Light and thin
-  High resistance to marine environment
-  Easy to be integrated

## GIVING YOU MORE



3% positive tolerance



Series of internal harsh tests



Authorised photovoltaic certificates



Linear performance warranty

FS series is at the top of the range, thanks to the use of selected SunPower monocrystalline silicon cells, reaching a record 23% conversion of sunlight into electricity and with a pleasant appearance, thanks to back-contact technology which hides the electrical contacts. SunPower cells represent the most advanced available technology on the market, and make the Top Solar panels the highest-efficiency flexible panels.

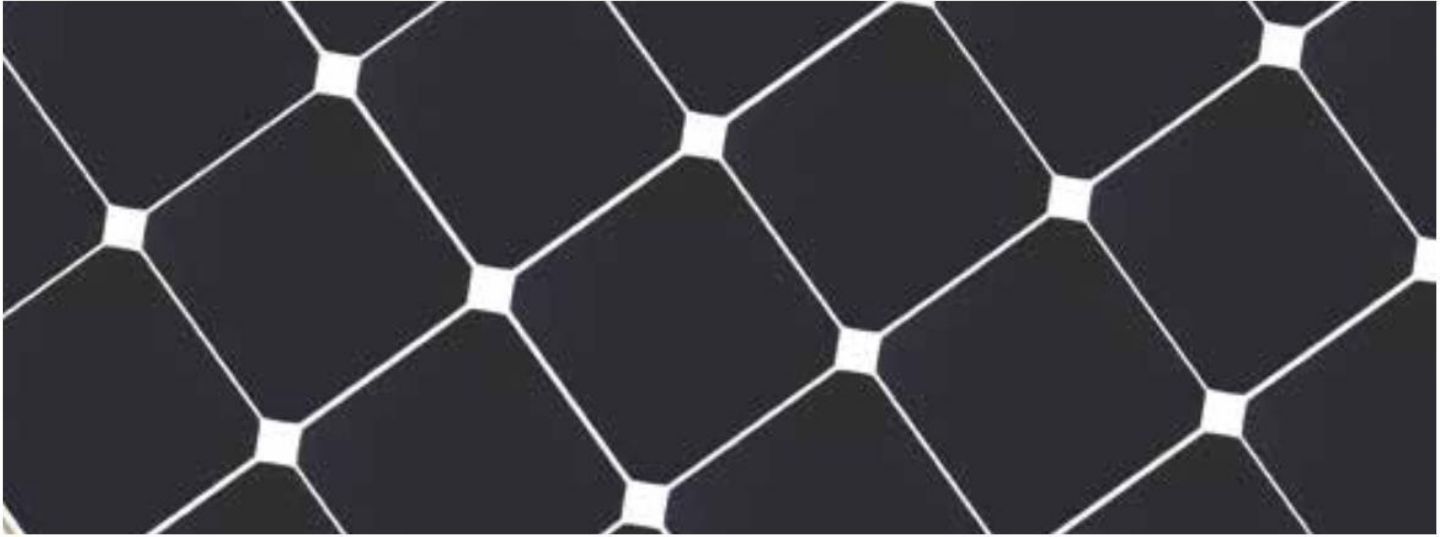
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### Electrical Characteristics under STC\*

Model No.:	TS-FS180
Maximum Power-Pmax(Wp)	180W
Voltage at Maximum Power-Vmp(V)	33V
Current at Maximum Power-Imp(A)	5.5A
Open Circuit Voltage-Voc(V)	40V
Short Circuit Current-Isc(A)	6A
Solar Cell Efficiency(%)	19
Power Tolerance(%)	0/+3

### Dimensions

Length(mm)	1300
Width(mm)	800
Thickness(mm)	1.8
Weight(kg)	3

### Temperature Characteristics

Temperature Coefficient of Pmax(%)	-0.38%/°C
Temperature Coefficient of Voc(%)	-0.28%/°C
Temperature Coefficient of Isc(%)	0.06%/°C

### Maximum System Ratings

Operating Temperature	-40°C to +85°C
Maximum System Voltage	600V DC
Maximum Series Fuse Rating	10A



\*STC(Standard Testing Conditions):Irradiance 1000W/m<sup>2</sup>,cell temperature 25°C,AM=1.5 \*NOCT(Nominal Operating Cell Temperature):Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C,wind speed 1m/s

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