



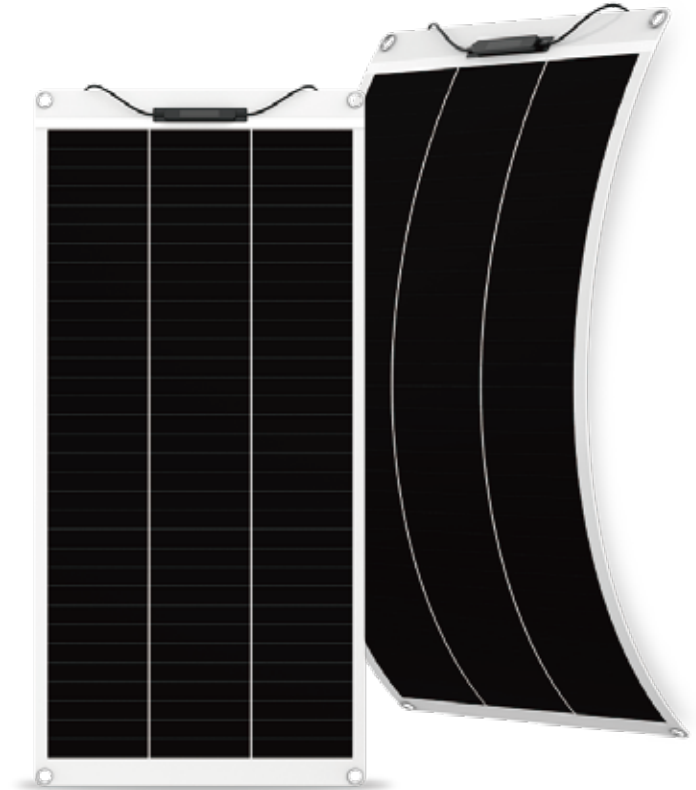
100WP FLEXIBLE SOLAR PANELS

Introduction of shingled panel

▪ Shingled cell is connected by special conductive glue, face to face with zero distance connection. So it has better bending performance than a conventional panel connected by bus bar/This can enhance current transportation inside the panel. At the same time, micro crack affecting area is limited.

▪ The Cell is connected by ribbon, it will cover part of the solar cell. So reduce the sunlight absorption. The shingle solar cell is a back-contact solar cell, so the surface can completely collect the sunlight. The quantity of cells, shingle solar cell can produce more power.

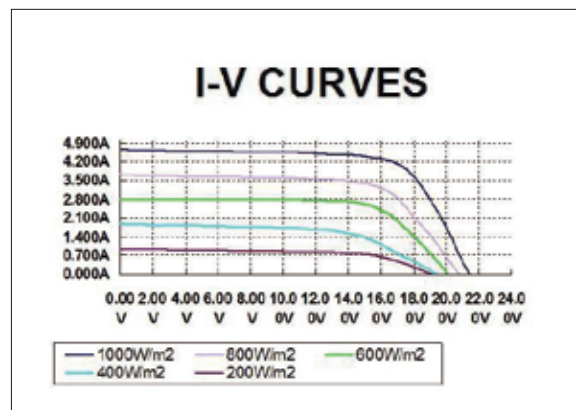
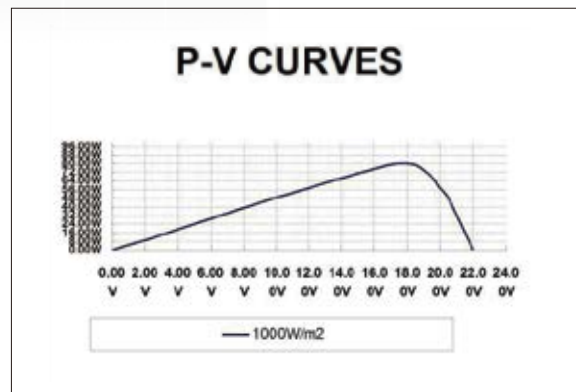
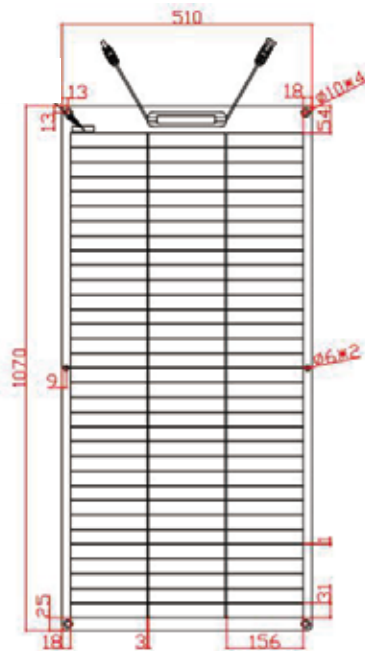
▪ Conventional panel connects in series, shingled panel is series & parallel connection. So shingled panel can reduce shading negative effects. The unique parallel design reduces the hot-spot effect significantly



Warranty

25-year transferrable power output warranty:

- 1 years/95% ,3 years/90%, 10 years/85%, 20 years/80% Based on nominal power
- 1 years material and workmanship warranty



**ELECTRICAL CHARACTERISTICS**

Model	FS-S 100WP
Maximum Power at STC (Pmax)	100W
Optimum Operating Voltage (Vmp)	19.80V
Optimum Operating Current (Imp)	5.05A
Open - Circuit Voltage (Voc)	23.40V
Short - Circuit Current (Isc)	5.59A
Cell Efficiency	21.0% above
Operating Module Temperature	-20 °C to +65 °C
Maximum System Voltage	1000 V DC (IEC) / 600 V DC (UL)
Maximum Series Fuse Rating	20 A
Power Tolerance	±3 %

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;**MECHANICAL CHARACTERISTICS**

Solar Cel	Shingled cell
Cells layout	3*33
Dimensions	1070*510*3mm
Weight	1.60Kg
Front Glass	ETFE or Polish PET
Frame	N/A
Junction Box	IP67 rated
Output Cables	TUV (2Pfg1169:2007), UL 4703, UL 44 Optional 4.0 mm ² ,symmetrical lengths (-)1000mm and (+)1000mm
Connectors	SOLAR MC4 integrated twist locking connectors

TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	25±2°C
Temperature Coefficient of Pmax	-0.44 %/°C
Temperature Coefficient of Voc	-0.33 %/°C
Temperature Coefficient of Isc	0.055 %/°C