

High efficiency bendable solar modules

Features

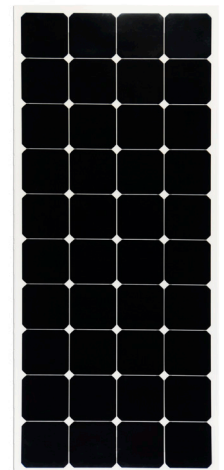
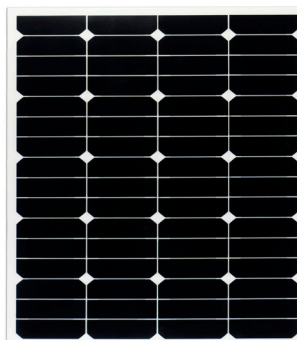
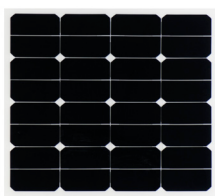
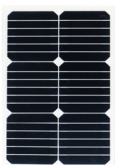
High efficiency bendable solar module with the highest efficiency cell in the world (Sunpower), with efficiency up to 20% or higher, which enable 25-30% higher power generation than the conventional PV modules at the same size.

By adopting the back contact technique, the cell can be coated with the flexible materials and finally forms the high efficiency flexible solar panel. This kind of solar panel can be widely used in a wide range of fields.



Applications

- » Electric Golf Car
- » Patrol Car
- » Travel Tourism Car
- » Yacht
- » Roof Power generation
- » Backpackent



Flex018W12V

Flex025W12V

Flex050W12V

Flex060W12V & Flex060W24V

Flex100W12V

Flex120W12V



Golf Car



Patrol Car



Travel Tourism Car



Solar Boat

PV-FLEX Series

Model	Flex018W12V	Flex025W12V	Flex050W12V	Flex060W12V	Flex060W24V	Flex100W12V	Flex120W12V
Max Power	18W	25W	50W	60W	60W	100W	120W
Max Power Voltage	19,4V	19,8V	17,6V	17,5V	35,2V	17,8V	22,0V
Max Power Current	0,93A	1,26A	2,84A	3,43A	1,71A	5,62A	5,45A
Open Circuit Voltage	23,7V	23,4V	21,2V	21,0V	42,3V	21,6V	26,4V
Short Circuit Current	1,03A	1,34A	3,05A	3,84A	1,86A	5,97A	5,87A
Maximum System Voltage	600V	600V	600V	600V	600V	600V	600V
Series Fuse Rating	10A	10A	10A	10A	10A	10A	10A
Temp. Coef. Power	-0,38%/°C	-0,38%/°C	-0,38%/°C	-0,38%/°C	-0,38%/°C	-0,38%/°C	-0,38%/°C
Temp. Coef. Voltage	-60,8mV/°C	-60,8mV/°C	-60,8mV/°C	-60,8mV/°C	-60,8mV/°C	-60,8mV/°C	-60,8mV/°C
Temp. Coef. Current	2,2mA/°C	2,2mA/°C	2,2mA/°C	2,2mA/°C	2,2mA/°C	2,2mA/°C	2,2mA/°C
Cell Efficiency	20,5%	19,5%	21,5%	19,6%	19,60%	19,9%	20,0%
Number of cells	36	36	32	64	64	32	40
Max. Power Tolerance	±5%	±5%	±5%	±5%	±5%	±5%	±5%
Width	277mm	277mm	535mm	535mm	535mm	540mm	540mm
Height	434mm	626mm	545mm	725mm	725mm	1050mm	1305mm
Deep	3mm	3mm	3mm	3mm	3mm	3mm	3mm
Weight	0,29kg	0,55kg	0,70kg	0,93kg	0,93kg	1,35kg	1,80kg
Bend Degree	Max. 30°	Max. 30°	Max. 30°	Max. 30°	Max. 30°	Max. 30°	Max. 30°

Note: All electrical parameters are rated at standard test conditions (irradiance of 1000W/m², AM 1.5G, cell temperature 77°F/25°C).

Warranty

Product workmanship warranty: 2 years

Performance warranty

10 years with maximum loss of 10% and 20 years with maximum loss of 20% on Power Rating