



Solar Home System

- Designed for the outdoor application.
- A solar power system without pollution, with safety and credibility.
- Long service life, maintenance-free.
- Consists of solar module, bracket, battery, power box and cable which can provide power source for DC lamp, DC TV and satellite receiver.

Portable Solar Power Source

- Portable and light-weight for household lighting, outdoor camping, exploration, emergency power supply for sentry or office.
- Apart from solar panels, it can also be charged by electric grid, car, boat, and ship battery, etc.
- Smart & compact design, with high power output, DC/ AC inverter included.



Solar Panel Kits for Caravan

- Designed for caravans, boats and homes.
- 50W~150W solar panels are available for your choice.
- Easy to install & maintenance-free.
- Weather-resistant.



FS-SHS50W Solar Home System

- Solar panel
The module is designed in accordance with IEC61215:1993 standards, manufactured with proven materials and tested to ensure electrical performance and service life.
- Connection wires
Cable for PV: wire size: 2*1.5mm² length: 15 M the length can be customized
Cable for lamp: wire size: 2*0.75mm² length: 5M include switch and lamp holder
- Power Control Box
Controller and battery are fixed in the metal box. There are solar panel connection terminals, three DC outputs for lamp, DC TV and satellite receiver. And there are three switches on the surface of the box, one controls load, one controls the battery output and the last switch controls the solar panel input.



- Specifications:
P=50Wp
Isc=3.16A
Uoc=21.6V
Im=2.8A
Um=18V
EFF=15%
- Controller
Model: Phocos CA06/05 charge controller
2 years warranty/ German technology
Nominal voltage 12V, max charging current 6A and max load current 5A
- Lead-acid battery
Parameter:
Battery voltage : 12V
Battery capacity : C/10 65Ah
Size: 348*168*178MM
Features:
Maintenance-free, no need for adding solution
Wide range of applicable temperature (-35-45°C)
Design life 5 years for NP series
Safe & explosion resistance
Unique mode for small self-discharge, good restoration property from deep discharge



FS-SPS20W Portable Solar Power Source

Power of solar panel	20Wp
Intelligent AC charger current	1A
Intelligent solar charger current	1.1A
Storage battery	12V/17Ah
Max. output current of DC plug	12 A
Power of AC output	250W
Inbuilt fluorescent light(replaceable)	2 x 4w bulbs
Voltage/frequency of AC output	220V ±10V/50Hz ±2Hz
Rated current of overload protection	12 A (Inbuilt, self-recovery)
Output wave type	Inverted sine wave
Working voltage	10.0~15.0 VDC
Protection functions	Alarm for extreme voltage and protection for overload /overheat/short-circuit



Important Notice

- Solar panel charging:
- Put the solar panel in outdoor area, facing south to absorb solar ray fully, make sure it is not sheltered or covered. Then plug-in the electrical plug of the panel to the power source.
 - Using different power of panels for charging will get different fullness, the multi-purpose solar power source can be used with panel ranging from 15-50W, monocrystalline or polycrystalline silicon.
 - Using additional battery:
 - For increasing the usage time, additional and external battery is recommended to increase the storage capacity.
 - Use suitable power cord to connect the red extension cord with the positive pole of the multi-purpose solar power source.
 - Use suitable power cord to connect the black extension cord with the negative pole of the multi-purpose solar power source.

FS-SPK70W Solar Panel Kits for Caravan

Solar Panel
Power 70Wp
Im 3.97A
Um 17.64V
Isc 4.43A
Uoc 21.6V



Cable A(anti-UV)
Section 2.5mm²
Length 2m(optional)

Cable B(anti-UV)
Section 4.0mm²
Length 3m(optional)

Brackets
Anodized Aluminium

Controller
Model: Phocos CA-06



- Includes solar panel, anodized aluminium brackets, charging controller, cables.
- The module is designed in accordance with IEC61215:1993 standards, manufactured with proven materials and tested to ensure electrical performance and service life.
- Cells are laminated between high transmissivity low-iron 3.2mm tempered glass and sheet of TPT material by two sheets of EVA to prevent moisture penetrating into the module.
- Heavy duty anodized aluminium frame provides high wind resistance and convenient mounting access.
- Photovoltaic module with bypass diode minimizes the power drop caused by shade.
- Nominal 12V output for battery charging applications.