

**SPECIAL NOTES**

- Do not install the solar panel where it cannot see the sun as you will find charging times from the panel significantly increased.
- For best results please clean the solar panel every 2 to 3 months with a damp microfibre cloth.
- Do not use in extreme temperatures i.e. above 45°C or below 0°C.

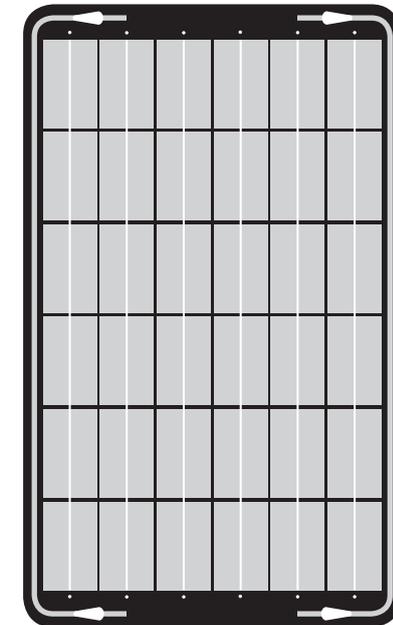
**WARNINGS**

- Keep this device away from fire and flammable liquids as there is a risk of explosion.
- If the product appears damaged in anyway do not use.
- Do not allow water to enter the regulator.
- Do not drive your vehicle with the solar panel still attached to your windscreen.

**WARRANTY**

Your SolarGo2 12w panel and controller will have a 1 year warranty from the date of purchase. However the warranty does not cover damage caused by accident, neglect, misuse, alteration or being left in an unsuitable environment.

Contact us by email [Support@solargo2.com](mailto:Support@solargo2.com) or visit the website [www.solargo2.com](http://www.solargo2.com) for more contact information.

**User Manual****12w Solar panel  
with solar controller**

Model: SPFC12



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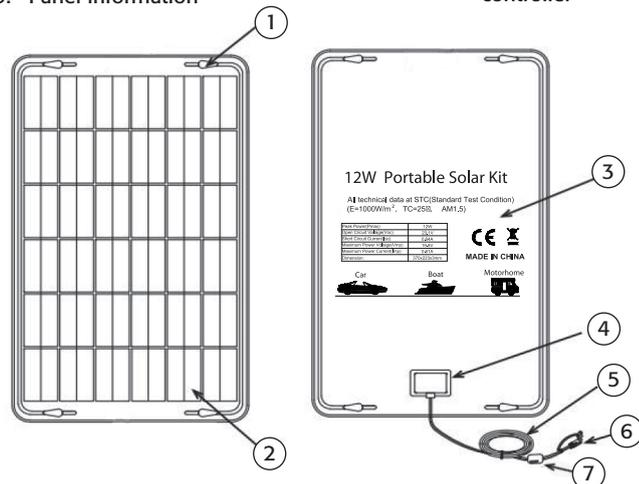


Important: Please read before first use.

We thank you for purchasing and hope you will have many years of enjoyment with this panel. Please follow the below instructions to get the very best from this product. If you have any questions not answered in this user manual please visit the product page on our website [www.solargo2.com](http://www.solargo2.com) for more FAQs and help. We would love to see how you have used this panel so please feel free to send us pictures of your panel in its new home.

**DESCRIPTION**

- 1. Mounting holes
- 2. Solar cells
- 3. Panel information
- 4. Junction box
- 5. Cable
- 6. SAE connector
- 7. Solar charge controller

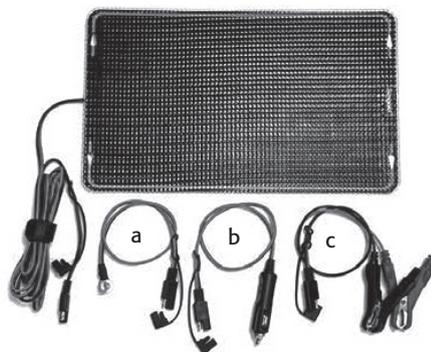


**PANEL TECHNICAL DATA**

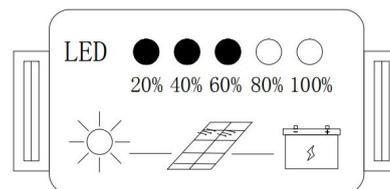
Model Number SPFC12	12W
Peak Solar Power Pmax	12W
Open Circuit Voltage (Voc)	23.1 V
Short Circuit Current (Isc)	0.64 A
Maximum Power Voltage (Vmp)	19.8V
Maximum Power Current (Imp)	0.61 A
Dimension: 370x223x3mm	Net Weight: 0.47kg Gross Weight: 0.94kg

**Kit also includes:**

- a Ring terminals cable for connection to battery.
- b Crock clips cable for connection to battery.
- c Car accessory plug for connecting to a car's accessories socket.



**SOLAR CHARGE CONTROLLER**



**CONTROLLER TECHNICAL DATA**

Model Number	SPFC12
Input Voltage Range	12V-24V
Output Voltage Range	11V-13.2V
Output current	1.5 A
Standby power consumption	<2 mA

**CHARGING STATUS**

Electric Quantity	LED display
<25%	LED1 is always on, and LED2~LED5 slow flash
<50%	LED1 and 2 are always on, and LED3~LED5 slow flash
<75%	LED1, 2 and 3 are always on, and LED4~LED5 slow flash
>75%	LED1, 2, 3 and 4 are always on, and LED5 slow flash

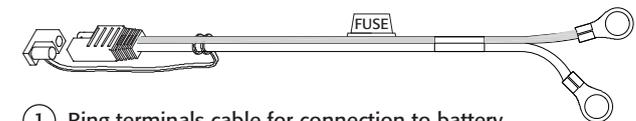
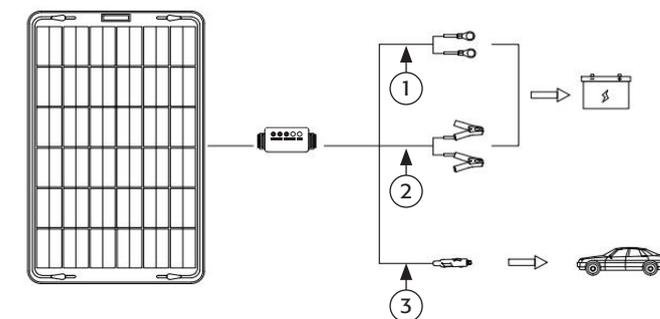
**INACTIVE STATUS**

Electric Quantity	LED display
<0%	No LED on / LED flashing
20%	LED1 is always on
40%	LED 1 and 2 are always on
60%	LED 1, 2 and 3 are always on
80%	LED 1, 2, 3 and 4 are always on
100%	LED 1, 2, 3, 4 and 5 are always on

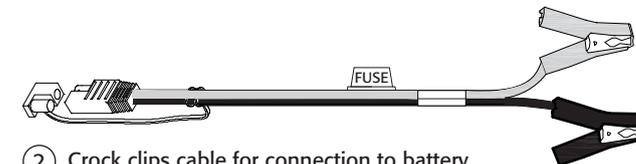
**ERROR INDICATORS**

Display	Error	Problem	Fix
LED1 flashing	Undervoltage	Undervoltage of battery	Disconnect the solar panel and charge the battery up from a mains powered charger
LED4 and 5 flashing	Overvoltage	The battery voltage exceeds 16V	Disconnect the solar panel and discharge the battery to 12.8v DC or replace the battery

**USING YOUR 12W PANEL**



① Ring terminals cable for connection to battery.



② Crock clips cable for connection to battery.



③ Car accessory plug for connecting to a car's accessories socket.

**Instructions**

Place your 12w solar panel into the position you wish to fix it. Use the provided suckers for the inside of a windscreen or use screws (not supplied) for fixing to a flat surface etc. Connect up the cable end for your connection method (①, ② or ③). Your panel will now start charging your battery.

**Please note** - If using the car accessories plug via your car's accessory socket please check that once your car's ignition is turned off the car's accessories socket is still live. Some cars disconnect this socket either as soon as you turn the car off or up to 20 minutes later.

**WARNING** - Do not drive your vehicle with the solar panel still attached to your windscreen.