

Warning

1. Only use the original cables supplied
2. Avoid extreme temperatures
3. Keep the fold-up solar panel away from fire to ensure damage and injury do not occur.
4. Any severe shock or impact may result in damage and will invalidate the warranty.
5. It is forbidden to dismantle the fold-up solar panel except by Solar Technology International personnel or agents appointed by Solar Technology. Any sign of tampering will result in the warranty being invalidated.

Warranty

The fold-up solar panel is supplied with a 24 month warranty. Should a failure occur during this time, Solar Technology International Ltd will repair or replace any faulty part/s, at its discretion upon a copy of the proof of purchase being provided. Solar Technology International Ltd does not accept liability for any 3rd party damage how so ever caused or any costs associated with the return of faulty products.

To make a warranty claim please telephone Solar Technology International Ltd on **+44 (0) 1684 774000** or email us at **support@solartechnology.co.uk**

These warranty conditions in no way affect your statutory rights.

A full set of Solar Technology International Ltd terms and conditions are available on request.

Solar Technology International Ltd

We are manufacturers of some of the world's most advanced solar energy products including; rigid and semi flexible solar panels, power and lighting systems, off grid power stations, solar flood, security and utility lighting. To find out more please visit **www.solartechnology.co.uk**

If you have any questions about this product or regarding these instructions please contact the Solar Technology International Technical Helpline on **+44 (0) 1684 774000**

or email us at **support@solartechnology.co.uk**

or alternatively please write to:
**Support, Solar Technology International Ltd,
Unit 4, Station Drive, Bredon, Nr. Tewkesbury,
Gloucestershire GL20 7HH, UK**



Solar
Technology
International
Without boundaries

PV Logic®
Fold-up

User manual



8W-12V Fold-up Solar Battery Maintainer

Model: STFP008

Congratulations on selecting this high quality 12V battery solar charger. Used in the correct way it will deliver many years of trouble free operation.



Solar Technology International Limited
Unit 6, Station drive, Bredon, Tewkesbury GL20 7HH

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Important: please read before first use.

Technical helpline 01684 774 000



SPECIFICATIONS

Size:

(Closed) 230 x 198 x 15mm
(Open) 470 x 198 x 7.5mm

Weight: 600g

Supplied in this package

- 8wp fold up solar panel with 3m cable and cable storage pocket (A)
- 20cm connecting cable with crocodile clips (B)
- 20cm connecting cable 12v auto plug (C)
- 4 x rubber suction cup (D)
- User manual (E)

How does it work

When exposed to daylight the solar cell instantly begins to generate a voltage. The fold-up solar panel will work in all daylight conditions and is fully weather resistant.

Positioning

This will be determined by the cable length from panel to battery. But wherever possible place the panel ideally at 35 to 65 degrees, facing south. The fold-up solar panel will still work if positioned behind glass or perspex and even if facing north, although in such circumstances the power delivery will be reduced.

Protection against battery drain

The fold-up solar panel has a built in blocking diode fitted which prevents battery drain during night time. Therefore, the panel can be left attached long term.

Note – there is no fuse connected to this system, therefore care must be taken not to pinch, cut or damage the integrity of the supplied cables, as a short circuit may occur.

Performance

The fold-up solar panel will deliver current to a 12V battery. It is rated at 8W, which means in ideal conditions, the panel will generate 8 watts of power per hour. This is a perfect amount of power to prevent a large battery going flat, even in winter.

Note – if the intention is to use the panel with a battery lower in capacity than 60Ah then we would recommend either purchasing the Solar Technology International STCC10, 10A charge controller which prevents the battery getting overcharged and therefore damaged by a solar panel, or paying close attention to a battery's condition and when 95% fully charged detach the panel from the battery.

Charge controllers and solar panel test meters can be purchased from your retailer or through www.solartechtechnology.co.uk.

Connection

This system is supplied with both 12v auto plug and crocodile clips to connect to a battery. If using the 12v auto plug please be aware that your 12v auto socket (cigarette lighter socket) may not be active with the ignition turned off. In this case you will need to connect to the battery using the crocodile clips. You can check if the 12v socket is live by inserting the 12v auto plug into the socket. If it is live and can accept a charge the red indicator light on the plug will illuminate. If not, you must use the crocodile clips.

Ensure the location where you want to fix the solar panel can reach the battery with the fitted 3.2m cable / connectors. Open the panel so its solar cell is facing daylight. You can either rest the panel on a surface (ie on a dash board) or fix it to a windscreen or similar by using the suction cups. You can also attach the panel by using bungee straps, cable ties etc. The panel is weather resistant so it can be fixed inside or out but please be aware the eyelet rings are stainless steel but can still potentially discolour or even rust.

When you have finished using the 8w fold up, carefully tuck the cable and chosen connector into its pocket and close the two halves of the panel. You will feel the closure magnets hold both halves together securely.

Note – although the voltage is relatively low, we would still recommend that the plastic insulation around the crocodile clips is handled rather than the exposed metal parts.

The 8w fold up panel has no indication that it is working, however, every panel has been checked and tested for performance prior to despatch so you can be sure it will work right out of the box. Should you wish to be certain, you will need to use a digital volt meter to test the panel. For assistance in this process please email hello@solartechtechnology.co.uk and we will email you back a help sheet.

FAQ

- 1. Will the panel be damaged if left outside all year?**
 - No – the panel is fully weather resistant. However, most batteries are not. Therefore always ensure the battery is dry and undercover.
- 2. How can the crocodile clip cable be routed from an engine bay into the driver's cabin, where the panel is located?**
 - You can safely close a bonnet lid and car door on the cable. However, it is vital that the area that will be clamped onto the cable is checked for sharp edges. It is a good idea to close the bonnet or door once and to reopen again to inspect the cable for any signs of significant damage.

Always check the cable for damage before use.

IMPORTANT: Always disconnect the cable before driving.
- 3. Can I get spare parts for the 8w fold up?**
 - Spare parts are available via our website www.solartechtechnology.co.uk and include; crocodile clips and cable, 12v auto plug and cable and suction cups.
- 4. Can the fold-up solar panel damage my battery by overcharging?**
 - If the battery is 60Ah or above the panel will not, in any circumstances overcharge the battery. If lower than 60Ah, a 10Ah charge controller should be purchased from your retailer or www.solartechtechnology.co.uk. **Note** – most car batteries are 70Ah or above.
- 5. Will the panel drain a battery when it's dark?**
 - No, a built in reverse feed diode prevents this occurring.