

Step 4: Connecting the Flexi cable to a charge controller (if supplied)

4.1 A charge controller will be necessary for STPVF020 and above and if using the O10 on a battery smaller in capacity than 70Ah.

4.2 Position the charge controller as close as possible to the battery (must be a dry location).

4.3 Measure the distance between your battery terminals and the charge controller.

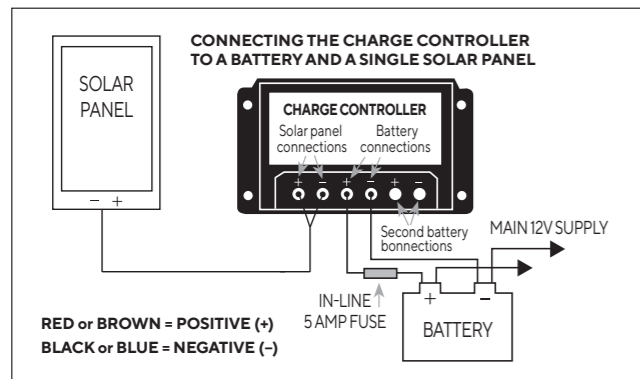
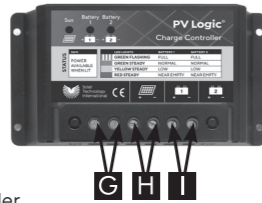
4.4 Cut the measured length of cable from the 4m cable fitted to the panel (or use any DC, 2 core cable at 1mm diameter for the 10w or 20w Flexi and 1.5mm for the 60w and 80w Flexi*) so that there is sufficient cable length from the Flexi panel to reach the charge controller.

* Additional cable can be supplied by Solar Technology International – www.solartechtechnology.co.uk

4.5 Now connect the cable end fixed to the Flexi to the charge controller. Strip back 20mm of the black outer sheath of the cable end to be connected to the charge controller.

4.6 Strip back 20mm of the black and red inner sheaths to reveal the bare cable. Crimp the supplied ring terminals to the cable end and attach the cable to terminals G of the charge controller, ensuring the positive and negative polarity is observed).

4.7 Using the cut section of cable as described in 4.4, attach one end to the terminals H in the same way as described in 4.6.



Step 5: Fitting the fuse

5.1 The fuse is fitted on the positive cable (red) on the cable section between the charge controller and the battery or if fitting the 10wp Flexi without a charge controller direct to the battery. Fit the fuse on the positive cable as close to the battery as possible.

5.2 Cut the red cable and strip 5mm of the red insulation from both the cut ends. Twist the bare wire ends tightly. Fit into the screw terminals on each of the fuse holder pieces.

Step 6: Connecting to the battery

6.1 If the STPVF010 has been selected, the crocodile clips can be fixed directly to the terminals of a 12v battery (greater in capacity than 70Ah) ensuring that the correct polarity is observed. If a smaller battery is to be used, purchase a charge controller and follow Step 4. This entails checking the battery at regular intervals with a digital voltmeter and when the battery is showing a volt reading of 14v or above, disconnecting the Flexi PV until the battery level has reduced.

6.2 For the STPVF020 and above (where a charge controller is being used), take the cable end coming from the charge controller, strip the red and black insulation (6cm) from the inner cable ends, twist the bare wire, wrap around the battery terminals and fix into position using your battery clamps. Some battery clamps have connection screws fitted, in which case, strip 20mm of cable from the red and black cable, crimp the supplied ring terminals and connect to the battery clamp screws.

6.3 When connecting to a battery always observe correct polarity.

6.4 If a second battery is being connected to the solar system see the instructions contained within the charge controller.

NOTE: RED = POSITIVE (+) BLACK = NEGATIVE (-)

Step 7: Testing the system

7.1 Testing can also be completed with a digital volt meter. Solar Technology International can supply special test instructions if required – please email hello@solartechtechnology.co.uk

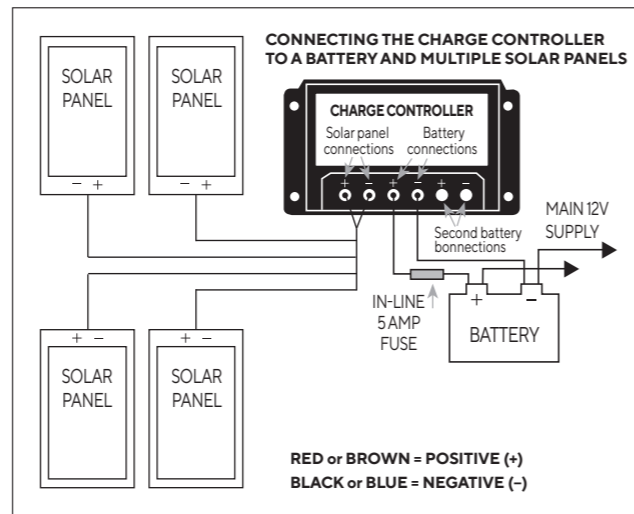
Options

Expanding the Flexi PV system

8.1 If multiple panels will be joined to form a mini solar array, please contact help@solartechtechnology.co.uk for a document titled 'Expanding a solar system' or call the Tech Help Desk on 01684 774000.

Connecting an inverter into the system

9.1 Should you require your solar system to power 240V appliances, you will need to connect an inverter. Select an inverter power (measured in watts) that is most appropriate for the power of your appliances (also measured in watts). The inverter will be ideally positioned reasonably close to the battery. Most inverters come with pre-fixed cable so fix the loose end directly onto the battery terminals (positive to positive / negative to negative) – contact 01684 774000 for more information.



Warranty

Solar Technology International flexi solar panels are supplied with a 5 year panel build warranty and 20 year cell performance warranty.

5 Year build warranty

This guarantee's the panel from mechanical failure and water ingress during this period. Void if the outer layers of the panel have been penetrated.

20 Year cell performance warranty

The solar cells are guaranteed to perform for the long term and this warranty specifically confirms that by year 20 the cells will be outputting no less than 80% of their new value. For example, a 100wp solar panel is guaranteed to deliver no less than 80wh by year 20 when tested under Standard Test Conditions.

In the event of a successful warranty claim in both cases, Solar Technology International will, at its discretion provide one of the following remedies; 1. Replace the defective solar panel or 2. Refund the percentage of the cost of the solar panel to the customer representing the percentage of the time period between new and year 10 and in the case of a claim on the cell performance a percentage will be paid according to the power output less than 80%.

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.

PV Logic[®] Flexi

 Solar
Technology
International
Without boundaries

User manual



Semi-Flexible Solar Panels

5wp/10wp/20wp/60wp/80wp/100wp/120wp/150WP

We want your photos and videos!

Here is your chance for you and your solar panel to be a star! Just send in pics or videos of you and your solar panel in a great location and if selected we will not only give you ever lasting recognition on our online favourite users wall of fame but we will send you a Freeloader Sixer, 6000mAH solar power bank worth £70 completely free! Please send to hello@solartechtechnology.co.uk including your address details and best of luck!

Note – we cannot guarantee to publish every entry and only those selected by our marketing department for publication will be awarded a Sixer. By providing your images you automatically grant us the right to use these images or videos howsoever we see fit.



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Important: please read before first use.

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