

# SP40WBC Solar Trickle Charger • Instruction Manual

- 1x4W solar panel with a built-in stand and a useful carrying handle
- 1x1.2M cable with 12V in-car plug attachments
- 1x2.5M cable with crocodile clip attachments



## How does it work:

When exposed to daylight the solar cell instantly begins to generate a voltage. The solar trickle charger will work in all daylight conditions and it 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 an upward angle of 35 to 65 degrees, facing south, to get the optimum light input. The solar trickle charger will still work if positioned behind glass or Perspex or even if facing north, although in such circumstances the power delivery will be reduced.

## Protection against battery drain:

The solar trickle charger has a built in blocking diode fitted that prevents any battery drain happening during the night. It should, therefore, be always left attached to the charger.

**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 this may cause a short circuit.

## Performance

The solar trickle charger will deliver current to a 12V battery. It is rated at 4W, which means that in ideal conditions, the panel will generate 4 watts of power per hour. This is set as the perfect amount of power to prevent any large battery going flat, even in a harsh winter.

## Connection

Decide whether the connection to the battery will be by an in-car, 12V socket using the plug (as is shown in diagram A) or direct to a battery's terminals using the crocodile clips (as is shown in diagram B). Then connect the selected cable to the battery. Both connector cables are supplied.

**NOTE:** if using the in car 12V plug, make certain that power can be delivered even if, for example, the car's ignition key has been removed. If in doubt - use the crocodile clips shown in Diagram B.

The signal light turns green when the charger is working

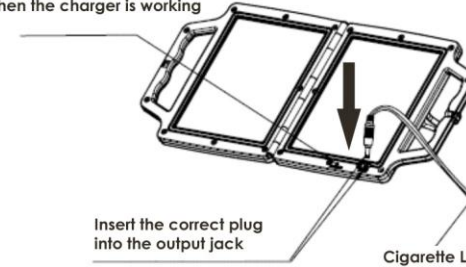


Diagram A: Using the In car 12V Socket

Connect the Solar Charger by taking the cable shown here and inserting the appropriate plug into the Cigarette lighter of your vehicle.

The signal light turns green when the charger is working

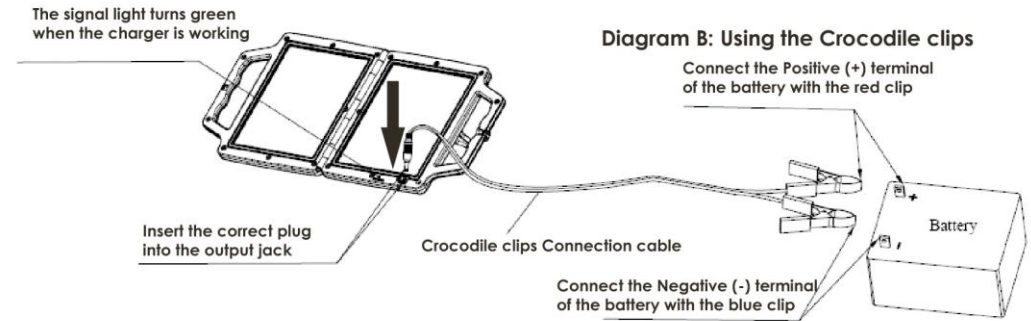


Diagram B: Using the Crocodile clips

**NOTE:** Although the voltage is relatively low, it is still recommended that when handling the connection cables, the plastic insulation around the pin is handled, rather than the metal pin itself. If the pin has been inserted into the panel correctly and if the other end has been connected to a battery that can receive power, then the charging indicator (D) will glow green which confirms that the solar trickle charger is delivering power to the battery.

## Warning

1. Keep the solar trickle charger away from fire to ensure damage and injury do not occur.
2. Any severe shock or impact may result in damage.
3. It is forbidden to dismantle the solar trickle charger.

## Product Disposal

At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

