



**solar**  
clean energy

# 4W Solar Briefcase

Operation and instructions N05HN

- 4W solar panel with built-in stand and carry handle
- 1.2m cable with 12V plug attached
- 1.2m cable with crocodile clip attached

## How it works:

When exposed to daylight the solar cell instantly begins to generate a voltage. The fold up solar panel will work in all weather conditions (even when the weather is dull or overcast) 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 an angle of 35 to 65 degrees, facing south. The solar panel will still work if positioned behind glass or perspex and even if faces north, however such conditions will reduce the power delivered.

## Protection against battery drain:

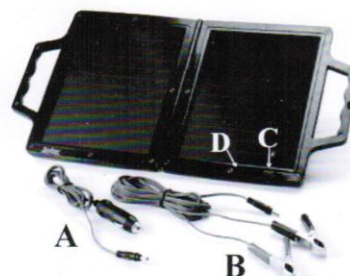
The folding solar briefcase has a built-in blocking diode, which prevents reverse charging and battery drain at night. Therefore, the solar panel can be left attached for the long term.

## Performance:

The solar briefcase will supply current to a 12V battery. It is rated at 4W, which means in ideal conditions the panel will generate 4 watts of power per hour. This is sufficient power to prevent a large battery going flat even in winter.

## Connecting:

Decide whether the connection to the battery will be made by a 12V cigarette lighter socket using the cable and plug in diagram (A), or direct to the battery terminals using the cable and crocodile clips in diagram (B).



**Note:** If using the in car 12V cigarette lighter plug, ensure that power can be delivered even if, for example, the cars ignition keys have been removed. If in doubt use the crocodile clips. Open the panel by gently pulling back on the button on the top of the carry handle. This will release the catch holding the two halves together. Open the panel and pull out both support stands on the rear of each panel. Position the panel in the optimum position to receive full sunlight. In the lower right corner of the folding solar panel, you will see the word output. Remove the rubber protection cap (C) to expose the socket. Now take the pin end of the selected cable that is connected to the battery and carefully insert it into the output socket.

**Note:** Although the voltage is relatively low, we would still recommend that 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 of the cable has been connected to a battery that can receive power, then the charging indicator (D) will illuminate green. This confirms that the folding solar briefcase is delivering power to the battery.

## Warning:

1. Keep the folding solar briefcase away from fire to ensure damage and injury do not occur.
2. Any severe shock or impact may result in damage and will invalidate the warranty.
3. It is not recommended that you dismantle the solar panel, as it contains no user serviceable parts.

