

FOLDING SOLAR PANEL KIT USER MANUAL

Installation

1. Remove solar panel kit from protective/storage carry bag.
2. Unclip the two latches on the side of the unit and fold the two panels outward. Extend the legs to support the solar panels.
3. Locate in a clear sunlit area free from over hanging branches or obstructions.
4. Place the solar panel kit facing the sun.

Note: To obtain maximum output it is suggested that the panels' angle be frequently adjusted to track the sun's movement through the day.

5. Fully extend battery lead and connect the battery clips to the + positive (red) & - negative (black) battery terminals on a 12v battery. Ensure that the connections are secure.

Operation

The connection LED is the LED on the left. BLUE

1. Blue LED flashing on the solar charger controller indicates that the battery leads are connected correctly to the battery.
2. No LED indicates incorrect connection or no connection to battery.

The charge condition LED is the LED next to the connection LED. (Green, Yellow or Red).

1. The charge LED glowing red, indicates that the battery is over discharged.
2. Yellow LED indicates that the battery is partially charged.
3. Green LED indicates the battery is charged but has not reached full charge.
4. Green LED flashing indicates that the battery has reached full charge.

Warranty:

The life span of the solar panels are more than 20 years, the accessory components' and regulator warranty is 1 year. The Solar Panels carry a warranty of 1 year manufacturer defect warranty and 5 years on the solar cells.

FREQUENTLY ASKED QUESTIONS

Q. What type of batteries can be used with this kit?

A. Any 12V DC battery used for caravans, motor homes, cars, boats, motor cycles, etc.

Q. When will the blue System light illuminate?

A. Only when the solar panels are generating sufficient power to charge the battery and connected correctly to a battery. (MUST BE CONNECTED TO A BATTERY TO WORK)

Q. Can I extend /lengthen the battery lead?

A. Yes extensions are ok but the longer the length the less efficient the power will be.

Q. Do I need to clean my solar panel?

A. Yes. Dust & dirt should firstly be swept off the panel surface using a soft brush and then use a wet cloth to wipe the panel surface to remove remaining dirt & grime. It is recommended that any bird droppings be removed as soon as possible as if left can cause damage to the surface.

Q. Will water damage my solar panel?

A. The solar panels are very well sealed, water should not effect them at all. The regulator even though well sealed should not be exposed to excessive amounts, water may enter via the wire connections.

Trouble shooting if system does not function

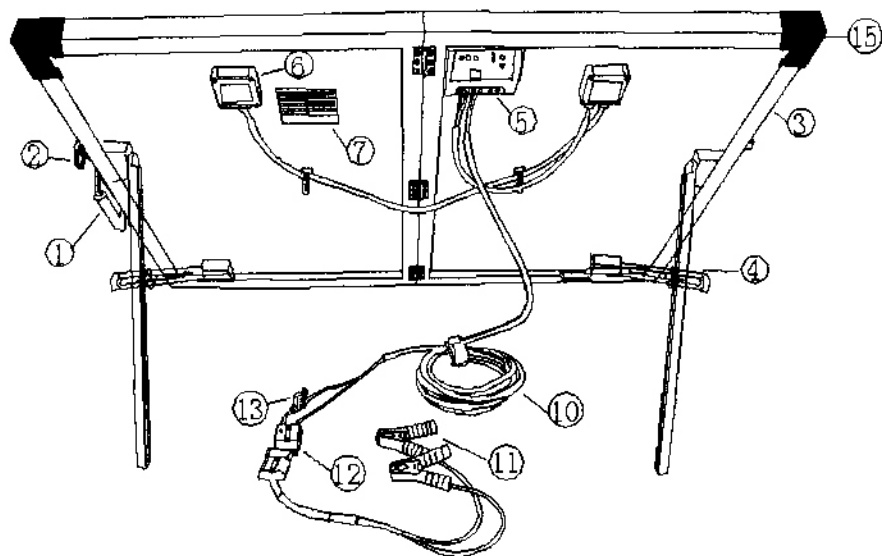
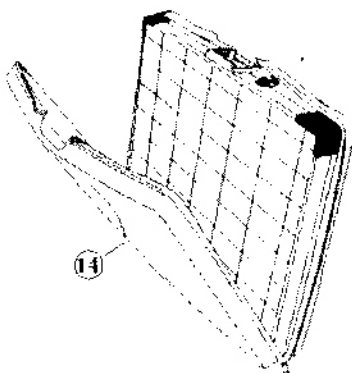
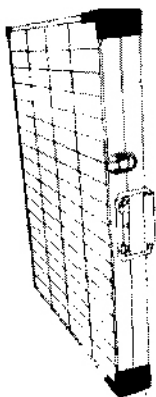
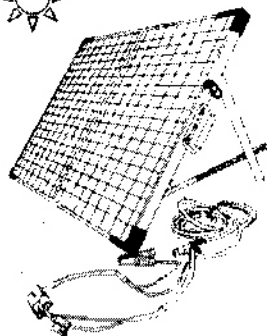
- Check all connections to ensure they are secure and free from moisture & debris.
- Measure the battery voltage, if it is 14.4V or higher, the green light on the solar charger controller should be illuminated. Check the condition of the battery, ensure it will hold a charge.
- Ensure sufficient light is available. Position your solar panel kit to face towards the sun.
- A battery must be connected to the battery leads before the regulator LEDS will glow.

Folding Solar Panel Kit Specification

Type	Kit Size Folded	N.W	Specification				
			Max-Power	Max-Power Voltage	Max-power Current	Open-Circuit Voltage	Short-circuit Current
Module	mm	Kg	W	V	A	V	A
2x50W	510x695 X70	15	100	17.50	5.71	21.60	6.17

Solar Cell: MONO

Technical data on the solar panel kit can be found on the label on the back of the solar panel.



Accessories:

- | | |
|-----------------------------|-----------------------|
| 1. Handle | 10. Cable |
| 2. Latches | 11. Battery clips |
| 3. Aluminum frame | 12. Anderson plug |
| 4. Aluminum support legs | 13. Protect corner |
| 5. Solar charger controller | 14. Storage carry bag |
| 6. Junction box | |
| 7. Label | |