

SOLAR CASE KIT

1103 - INSTRUCTION MANUAL



FOR PRODUCT
MANUALS AND VIDEOS,
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WHAT'S INCLUDED

Each Solar Case Battery Kit includes:

- 1 - Powersonic 12V 14AH Gel Cell Battery (#1702)
- 1 - Medium Dry Box (#6065)
- 1 - 6W Solar Panel (#1600)
 - Mounted on top of dry box.
- 2 - Battery Connectors
 - Positive and Negative Battery Clips.

SAFETY

- ▶ Never look into the megaphone.
 - ▶ Never place objects into the megaphone.
 - ▶ Do not place objects on top of the cannon.
 - ▶ Never use indoors.
 - ▶ Keep away from fire and sources of heat/ignition.
 - ▶ Only use LP Gas (propane) or butane gas.
 - ▶ Do not place the cannon into an enclosed space.
 - ▶ Call the proper authorities in case of a fire.
- ▶ Place cannon on a stable horizontal surface.
 - ▶ Clear an area of 5m (15ft) surrounding the cannon and gas cylinder of all debris, including flammable material, such as dried weeds and grass.
 - ▶ The area directly in front of the megaphone must be clear of obstructions.



INSTALLATION

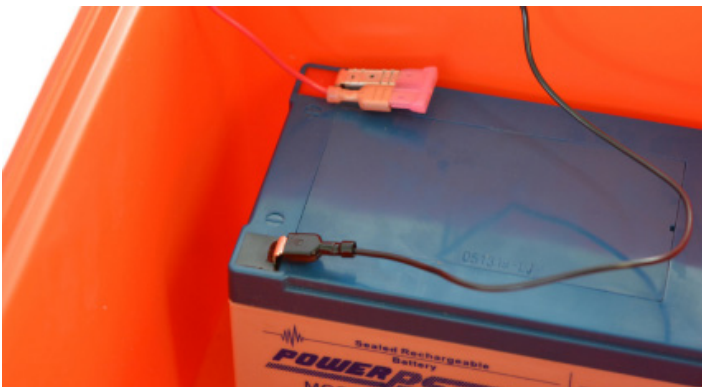
1. Attach lid. Parts may be shipped separately.



2. Place battery inside of the dry box.



3. Connect the red lead from the solar panel to the positive "+" battery terminal with the supplied fuse. Connect the black lead directly to the negative "-" terminal.



4. Attach the red alligator clip from your cannon to the positive "+" terminal on the outside of the solar kit. Attach the black alligator clip to the negative "-" terminal.



5. In high wind conditions, it may be necessary to add extra weight in the dry box (such as a brick or large rock) to secure the battery box.
6. Close and latch the lid shut. You may now operate the cannon. The best placement of your kit is to have the solar panel oriented south towards the sun. It's imperative to keep the solar panel clean in order to maximize energy collection. Use only water to clean the panel. Shade and other obstructions will impact solar charging.



BATTERY MAINTENANCE

STORING BATTERIES DURING OFF-SEASON

Proper charging and maintenance can help keep the internal battery at full power when needed again. Lack of use and charge is one of the leading causes of premature battery failure. The average battery life expectancy for the 12 volt batteries in the solar kit is 3 to 5 years of continuous use. Prolonged storage of the unit will reduce the life of the battery.

- Keep the battery in a cool place with a temperature range of 5°F to 80°F (-15°C to 27°C)
- Keep the battery in a dry place, preferred relative humidity of 25% to 80%
- Keep the battery terminals clean and free of corrosion.
- If possible, disconnect the battery from the solar panel internally.

MAINTENANCE CHARGE SCHEDULE

The battery will discharge on its' own (self-discharge). If still connected inside the solar kit box, additional discharge may occur. Due to these occurrences, storage time without a charge is limited. The rate of self-discharge will increase with higher temperatures. At room temperature, self-discharge for lead batteries is about 5% per month. In order to prevent internal corrosion (sulfation) and limit capacity loss after prolonged storage, it is necessary to periodically recharge the battery.

While stored, charging the battery once every two months is recommend (more often if in a high temperature climate). This can be done by simply allowing the solar panel to charge the battery for at least 5 sunny days. The battery can also be charged by using a 12V Taper Charger.

OPERATING CAUTIONS:

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| <ul style="list-style-type: none">• Charging can produce explosive gas.• Do not allow the battery to freeze. To avoid any chance of freezing, maintain battery charge. A charged battery will freeze if the temperature reaches -70°F. A fully discharged battery will freeze at approx. 15°F.• Use only a 4A ATO fuse to connect the battery to solar panel.• Do not short circuit battery terminals! Risk of electric shock and/or burns. | <ul style="list-style-type: none">• Do not overcharge the battery.• Do not charge in gas tight enclosures.• Use a battery charger specifically designed for the battery capacity.• Keep away from children.• Contains toxic lead electrodes.• Liquid is corrosive sulfuric acid. |
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Warning!

Do not use an automotive battery charger! It is dangerous and can damage the battery! Use a taper charger rated for 130 volts, .7 amp. max. (less than 1 amp).