

Solar Power Package

Quick Start Guide

Item # 3999WD

Contents of Package

- Solar panel/charger/battery assembly (fig. 1)
- Terminal Block adapter and connector cable (fig. 3)
- U-bolt

Mounting the Solar Panel

The solar panel bracket attaches to a post or pipe using the U-bolt (fig. 2). The U-bolt can accommodate a post diameter of 1.37 inches (3.5 cm) or less.

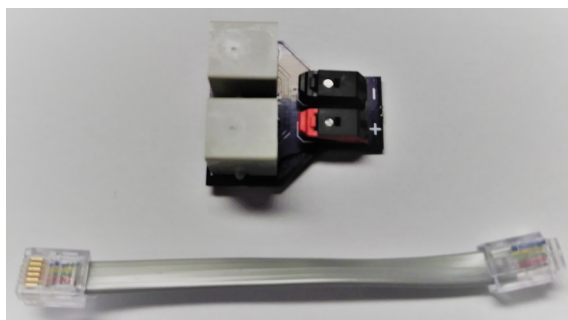
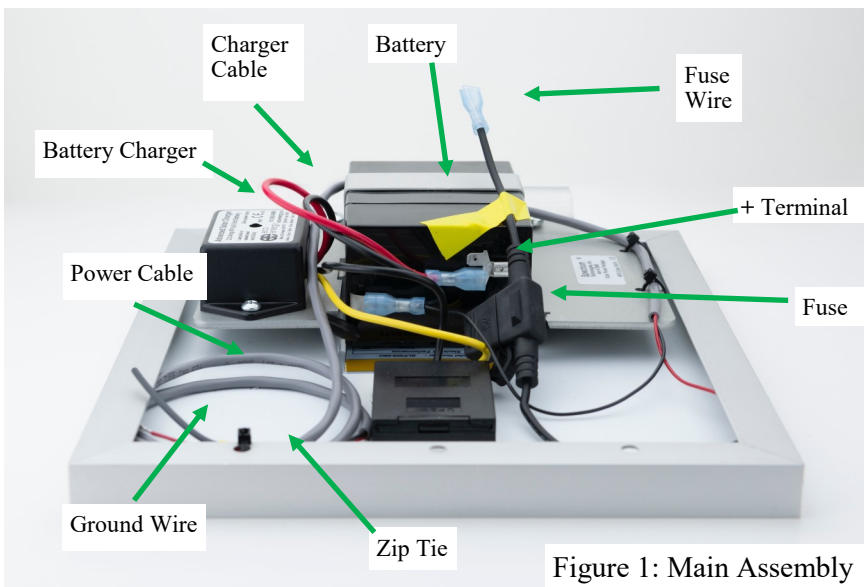


Figure 3: Terminal block connector and cable

Specifications

Voltage Range	5.25 V to 6.75 V
Capacity	5W solar panel with rechargeable battery pack, (6V, 4.5 Ah)
Operating Temperature	-4 to 122 °F (-20 to 50 °C)
Dimensions (Panel alone)	10.6 x 8.7 x 0.7 inches 27.0 x 22.2 x 1.8 cm
Dimensions (Panel plus battery and bracket)	10.6 x 10.6 x 2.1 inches 27.0 x 27.0 x 5.3 cm
Weight	3.8 lbs (1.72 kg)
Fuse	5 x 20 mm, 3A, 32VDC, fast

Connecting Solar Power Package to a WatchDog Weather Station

THE WEATHER STATION CANNOT HAVE BATTERIES INSTALLED WHILE CONNECTED TO THE SOLAR PANEL. BE SURE TO REMOVE THEM BEFORE BEGINNING THE SOLAR PANEL INSTALLATION.

DO NOT attach the charge cable to the battery's positive terminal until the weather station is completely connected. To avoid possible damage to the Solar Power Package, or your weather station, the Solar Power Package is shipped with the charger cable disconnected from the positive terminal of the battery (fig. 1). The fuse connected to the WatchDog Power Cable protects the system if the red and black wires touch while connected to the battery.

1. Remove the cap from the weather station gland through which the cable is to pass.
2. Clip the zip tie that attaches the power cable to the frame. Pull the protective heat shrink off the ground cable (fig.1).
3. Feed the red and black wires through the cap, then through the gland (fig. 5). In general, it is a good practice to fold one of the wires down so they don't touch as they pass through the gland. This is only critical if the battery is fully connected (see step 6).
4. Attach the wires to the adapter by pressing down the lever, inserting the bare wire, and releasing the lever.
5. Use the short cable to attach the Terminal Block adapter to the weather station's AUX port (fig. 6).
6. **Apply power by connecting the red wire from the fuse to the positive (open) battery terminal (fig. 1).**

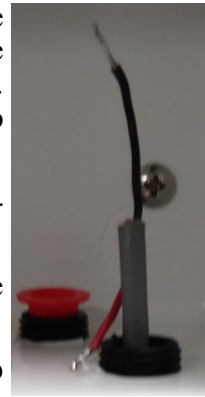


Figure 5: Power cable through gland



Figure 6: Adapter attached to AUX port

Dielectric grease on the connector protects it from corrosion and should not be wiped off. When replacing the battery, it is recommended to apply grease to the terminals

Note: When disconnecting the Solar Power Package from your weather station, follow the above steps in reverse order.

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