

# 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.

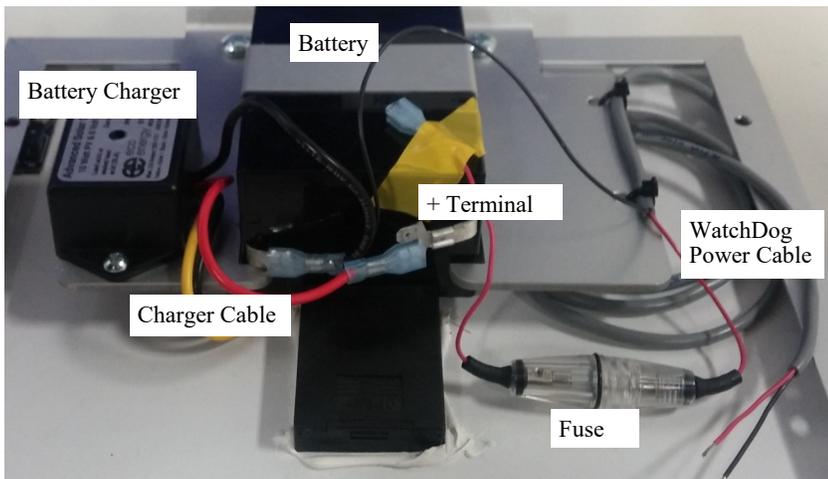


Figure 1: Main Assembly



Figure 2: Solar Panel connected to post

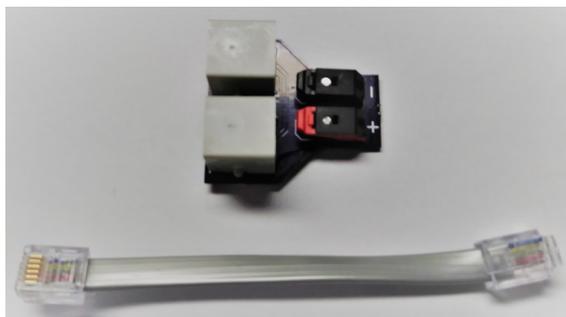


Figure 3: Terminal Block Connector and Cable

### Specifications

<b>Voltage Range</b>	5.25 V to 6.75 V
<b>Capacity</b>	5W solar panel with rechargeable battery pack, (6V, 4.5 Ah)
<b>Operating Temperature</b>	-4 to 122 °F (-20 to 50 °C)
<b>Dimensions (Panel alone)</b>	10.6 x 8.7 x 0.7 inches 27.0 x 22.2 x 1.8 cm
<b>Dimensions (Panel plus battery and bracket)</b>	10.6 x 10.6 x 2.1 inches 27.0 x 27.0 x 5.3 cm
<b>Weight</b>	3.8 lbs (1.72 kg)
<b>Fuse</b>	5 x 20 mm, 5A, 250V, fast

## Connecting Solar Power Package to a WatchDog Weather Station

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. 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).
3. 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. 7).**

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.



Figure 5: Power cable through gland



Figure 6: Adapter attached to AUX port

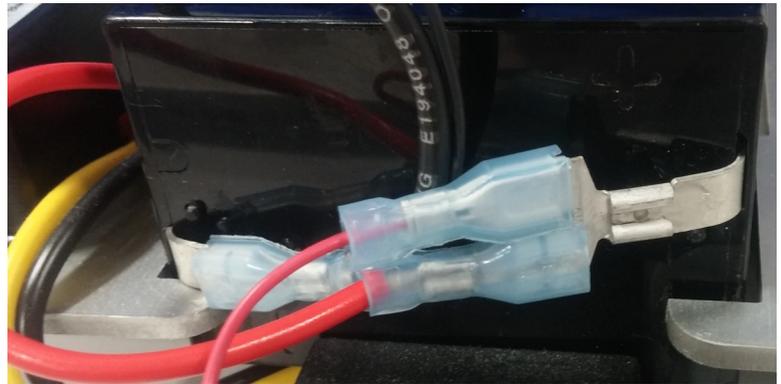


Figure 7: Charger cable connected to battery

**Spectrum<sup>®</sup>**  
**Technologies, Inc.**

3600 Thayer Ct.  
Aurora, IL 60503  
(800) 248-8873 or (815) 436-4440  
Fax (815) 436-4460  
E-Mail: [info@specmeters.com](mailto:info@specmeters.com)  
[www.specmeters.com](http://www.specmeters.com)