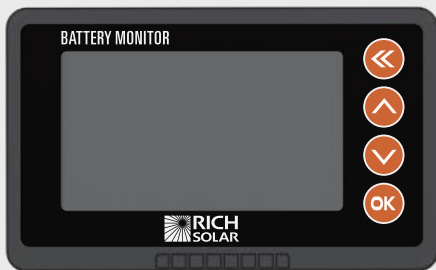




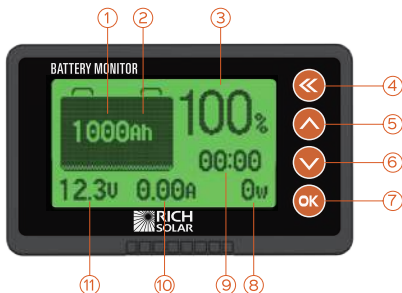
Quick Start Guide

Battery Monitor



MODEL: RS-BM500

Introduction

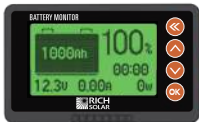


No. Description

- 1 Remaining Capacity
- 2 Charge/Discharge Indicator
- 3 Percent Remaining
- 4 Back Button
- 5 Up Button
- 6 Down Button
- 7 OK Button
- 8 Watts in/out of Battery
- 9 Time Remaining
- 10 Amps in/out of Battery
- 11 Battery Voltage

Find tech tips, manuals and support at www.richsolar.com.

Includes



Remote Display



500A Shunt



25' (8m) Shielded Cable



3'(1m) B+ Wire

Specifications

Model	RS-BM500
Battery Voltage Range	8-120V
Working Dissipation	10mA
Standby Dissipation	1mA
Capacity Accuracy	±1.0%
Voltage Accuracy	±1.0%
Current Accuracy	±1.0%
Backlight On Current	80mA
Capacity Setting Value	0.1-9999Ah
Current Range	0-500A
Temperature Range	-10~60°C (14~140°F)

Installation and Wiring-Overview

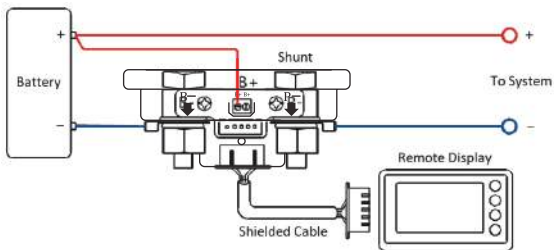
The RS-BM500 shunt should be mounted as close to the battery as possible and the remote display is intended to be mounted on a wall.

Recommended Tools

- Wrench
- Drill
- Jig saw
- 2 ring terminals of appropriate size for battery cable
- Crimp tool for ring terminals

Wiring Diagram

The following wiring diagram will be referenced in the next section.



Installation

1. Before doing anything, disconnect all wires from the negative side of the battery.
2. Cut the negative cable for the battery and crimp on new ring terminals. Alternatively, use a new wire of appropriate gauge to carry the full current demand of your system.
3. Install the shunt as shown in the wiring diagram above.
Note: The negative terminal of the battery must connect directly to the "B-" side of the shunt and there should be no other connections to the negative terminal of the battery for accurate measurements.

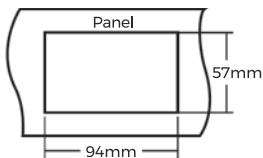
4. Use the B+ wire included in the package to connect the B+ terminal of the shunt to the positive side of the battery.

Note: Do not stack smaller terminals under large ones.

5. Connect the shunt to the remote display using the included shielded cable.

Mounting the Remote Display


1. Plan the location of your remote display and keep in mind there is a cable that needs to route all the way to the shunt.
2. Drill a hole in the center of the planned location and use the jig saw to cut a hole according to the following picture.



Visit www.richsolar.com to print the mounting template.

3. Connect the shielded cable to the shunt and route it such that you can bring it through the hole.
4. Connect the shielded cable to the remote and snap the remote into place.

Basic Setup

1. Hold the "Ok" button for 3 seconds to enter the settings screen. The up and down arrows are used to navigate as well as change parameters. The "Ok" and "<<" button are used to enter and exit a setting.
2. Set the "CAP" setting to match the capacity of your battery or battery bank.
3. Optionally set the "HIGH V" and "LOW V" values to the voltages at which you want remaining capacity/percentage to reset to 100% and 0% respectively.
4. Alarm is the minimum Ah value that will trigger an audible alarm.
5. Once all of these settings are complete, hit  and your BM500 is set up.



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