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Redodo 500A

Redodo Battery Monitor with Shunt 500A User Manual

Model: 500A

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Redodo Battery Monitor with Shunt. This device is designed to accurately measure and display various battery parameters, including voltage, current, power, and remaining capacity, for a wide range of battery types. Please read this manual thoroughly before use to ensure proper functionality and safety.



Image: The Redodo Battery Monitor display unit and its retail packaging.

PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Battery Monitor Display Unit
- 500A Shunt Holder
- 20ft (6m) Shielded Wire
- 20AWG 3ft (1m) Power Wire
- Screwdriver
- Mounting Screws (x3)

UNIVERSAL BATTERY MONITOR



Image: All components included in the Redodo Battery Monitor package, laid out for inspection.

SPECIFICATIONS

Feature	Value
Voltage Range	8V - 120V
Current Capacity	Up to 500A
Compatibility	Lithium Iron Phosphate, Lithium-ion, LiFePO4, Lead Acid, Gel Batteries
Display Type	LCD with Backlight
Shielded Cable Length	20ft (6m)
Power Wire Length	3ft (1m)

Feature	Value
Product Dimensions (Display)	3.93 x 2.16 x 0.7 inches (100 x 55 x 18 mm)
Weight	1.48 Pounds



Image: Detailed dimensions of the battery monitor display and the shunt component.

SETUP AND INSTALLATION

Proper installation is crucial for accurate readings and safe operation. Follow these steps carefully:

- 1. Mount the Shunt:** Install the 500A shunt holder in a dry, well-ventilated area close to the battery's negative terminal. Ensure secure mounting using appropriate fasteners.
- 2. Connect the Shunt:**
 - Connect the negative terminal of your battery to the **B-** terminal on the shunt.

readability in various lighting conditions.

Display Information

The display provides the following key metrics:

- **Present Voltage:** Current battery voltage (V).
- **Present Current:** Current flowing into (+) or out of (-) the battery (A).
- **Present Power:** Real-time power consumption or generation (kW).
- **Capacity Level:** Graphical representation of remaining battery capacity.
- **Capacity Percentage:** Numerical percentage of remaining battery capacity (%).
- **Charge/Discharge Indicator:** Indicates if the battery is charging or discharging.
- **Remaining Charge/Discharge Time:** Estimated time until full or empty.

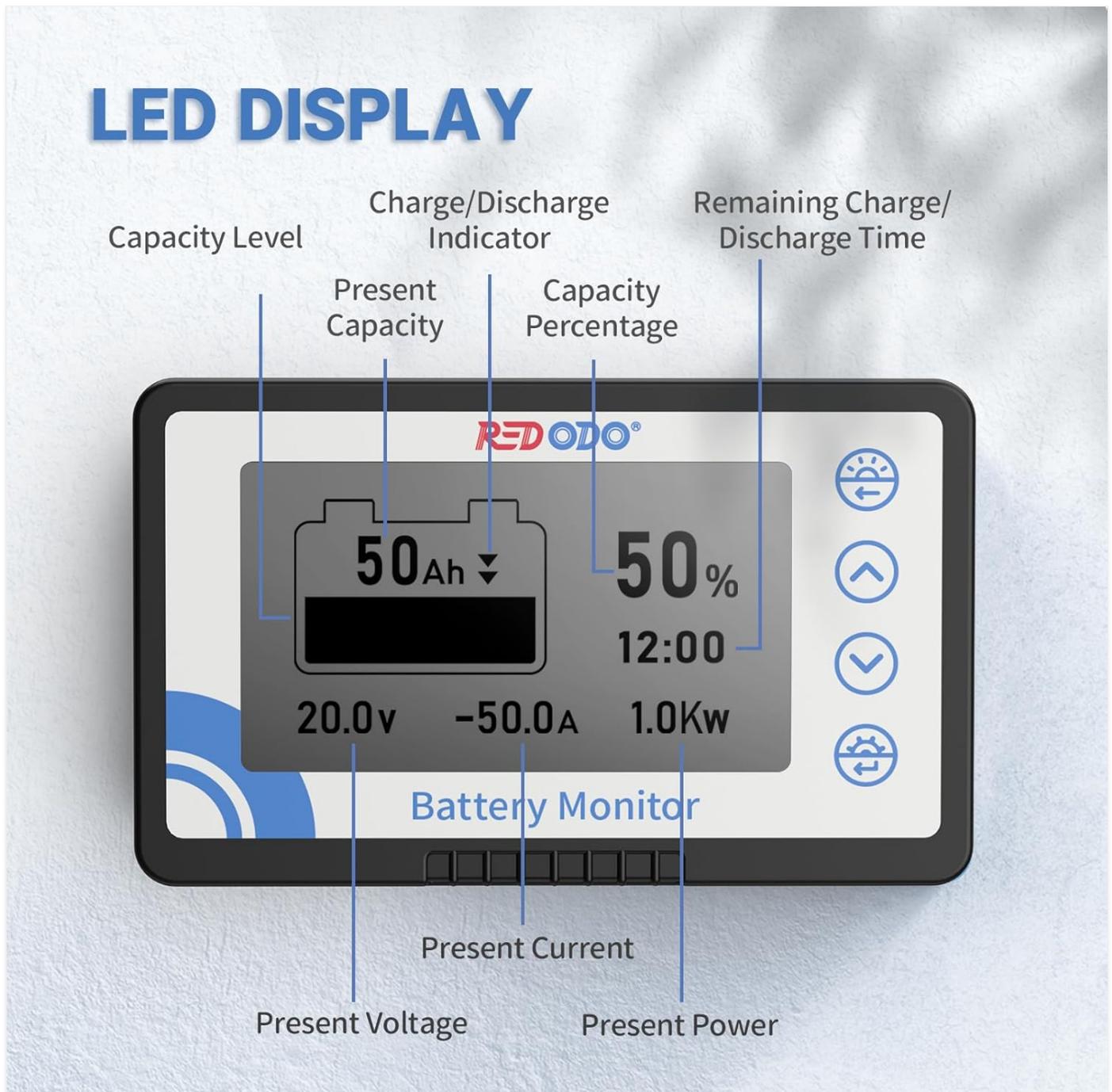


Image: An annotated diagram explaining each element displayed on the battery monitor's LED screen.

Programmable Alarm Functions

The monitor features programmable high and low capacity alarm functions to protect your batteries from over-discharge or over-charge. When an alarm condition is met, the monitor will emit an audible alert, and the backlight and voltage value on the screen will flash simultaneously.

Refer to the device's on-screen menu or a separate quick-start guide for specific instructions on how to set these alarm thresholds.



Image: The battery monitor screen showing visual indicators for high and low capacity alarm conditions, including flickering and vibrating alerts.

MAINTENANCE

The Redodo Battery Monitor is designed for minimal maintenance. To ensure optimal performance and longevity:

- Keep the display unit clean and free from dust and moisture. Use a soft, dry cloth for cleaning.
- Periodically check all wiring connections to the shunt and display unit to ensure they are secure and free from corrosion.
- Avoid exposing the unit to extreme temperatures or direct sunlight for extended periods.

TROUBLESHOOTING

If you encounter issues with your Redodo Battery Monitor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Display is blank or not powering on.	No power supply to the monitor; loose power wire connection.	Check the 20AWG power wire connection to the battery positive terminal and the shunt's B+ terminal. Ensure the battery has sufficient voltage.
Incorrect voltage or current readings.	Improper shunt wiring; loose shielded wire connection; incorrect battery capacity setting.	Verify that all current passes through the shunt (battery negative to B-, load negative to P-). Ensure the shielded wire is securely connected. Check and adjust the battery capacity setting in the monitor's menu.
Alarm constantly active or not triggering.	Alarm thresholds set incorrectly.	Adjust the high and low capacity alarm settings in the monitor's configuration menu to appropriate values for your battery type.
Display flickering or unstable.	Poor connection; electrical interference.	Check all wiring for secure connections. Ensure the shielded wire is not damaged and is routed away from strong electrical interference sources.

WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please contact Redodo customer service. You can find contact details and additional resources on the official Redodo website or through your purchase platform.

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