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LiTime Basic

LiTime 500A Shunt Battery Monitor User Manual

Model: Basic

1. PRODUCT OVERVIEW

The LiTime 500A Shunt Battery Monitor is designed to provide precise, real-time data for various battery systems. It automatically recognizes and adapts to a wide range of battery types, including Li-ion, LiFePO4, Gel, and AGM, operating within an 8V to 120V range and 0 to 500AH capacity. This monitor ensures optimal performance and safety with built-in protection against overcharge, over-discharge, short circuits, and overheating.

The large LCD display provides comprehensive battery information, including remaining capacity, charge/discharge current, charge/discharge time, voltage, power, and capacity percentage. Its backlit screen ensures readability in low-light conditions.

幅広い用途に理想的な仕様

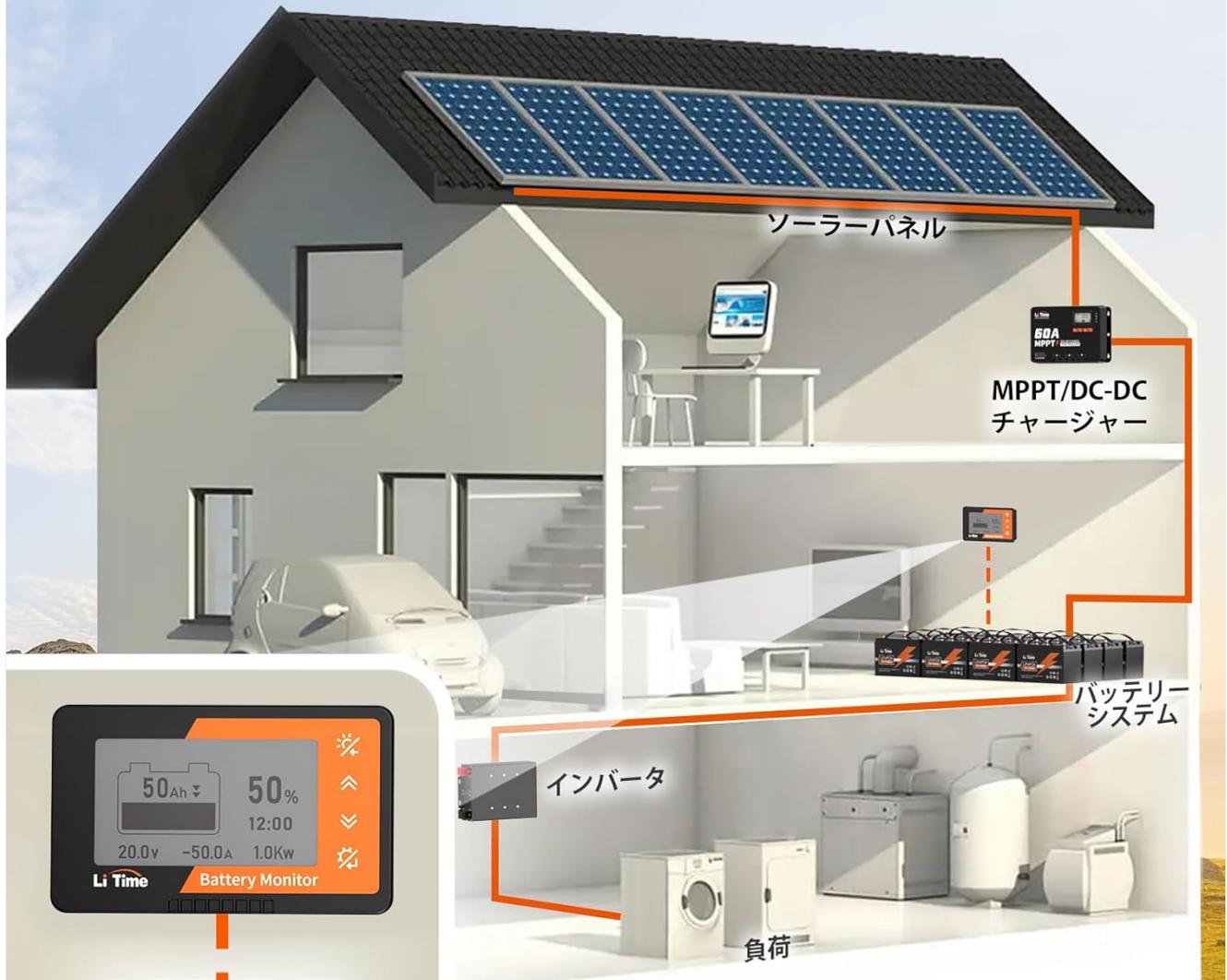


Image 1.1: The LiTime 500A Shunt Battery Monitor and its accompanying 500A shunt.

LCDディスプレイ&操作キー

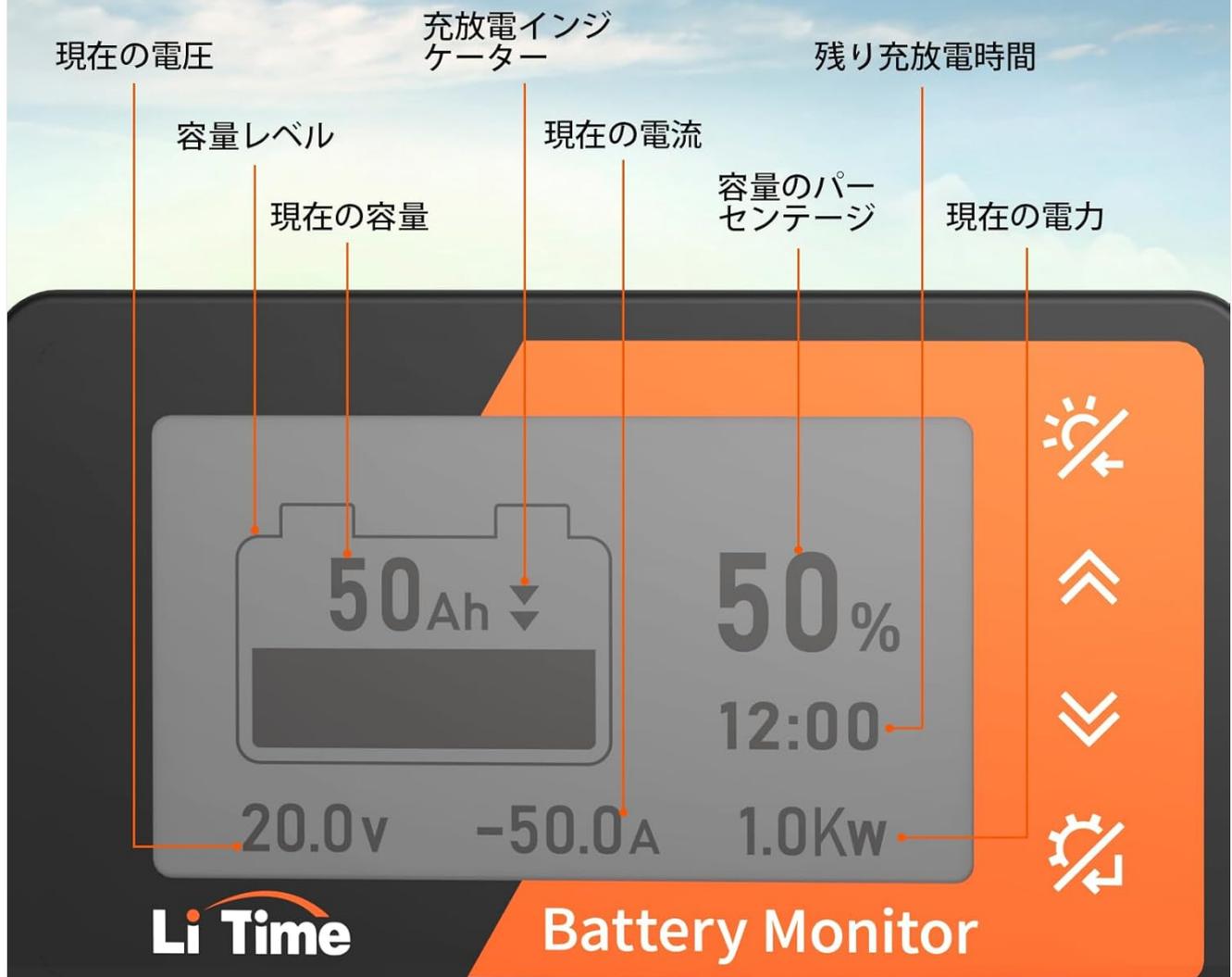


Image 1.2: Detailed view of the LCD display showing various battery parameters like voltage, current, power, and capacity percentage.

操作キー



長押し
バックライトのON/OFF



短押し/長押し
バックライトの明るさを上げる / 現在の容量を最大容量に設定



短押し
バックライトの明るさを下げる / 現在の容量をゼロに設定



長押し
設定インターフェースに入る

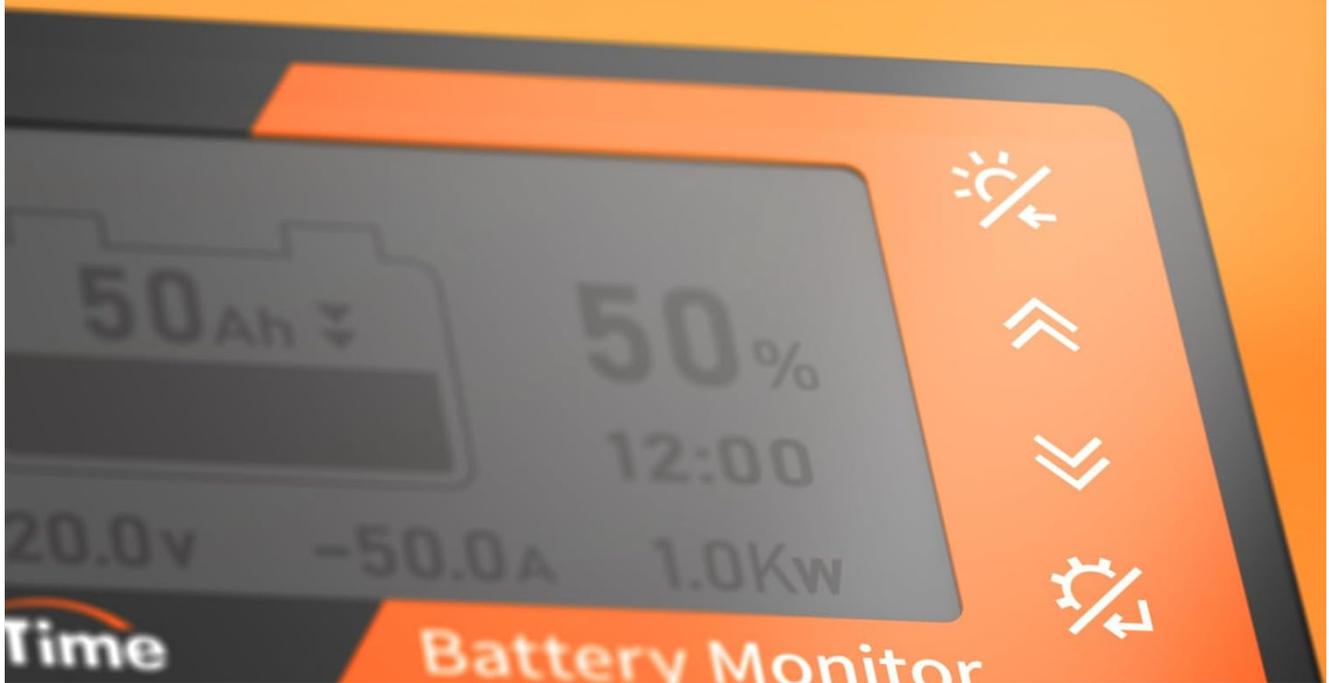


Image 1.3: Explanation of the operation keys for backlight control and settings adjustment.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- LCD Monitor Screen
- 500A High-Precision Shunt
- Shunt Holder
- 20ft Shielded Cable
- 20AWG 3ft Power Cord
- Screwdriver
- Mounting Screws
- User Manual (Japanese)

パッケージ内容



Image 2.1: All components included in the LiTime 500A Shunt Battery Monitor package.

3. INSTALLATION

3.1 Physical Installation

The LiTime 500A monitor is designed for easy installation. The shunt can be stably placed on a flat surface using the provided shunt holder. The display unit can be easily fixed using its integrated tabs. Refer to the detailed installation instructions in the included manual for specific steps.



Image 3.1: Dimensions of the battery monitor display and shunt for installation planning.

3.2 Wiring Diagram

Follow the wiring diagram carefully to ensure correct and safe installation. The shunt must be connected in series with the negative (-) circuit. Do not connect it to the positive (+) circuit.

配線イメージ

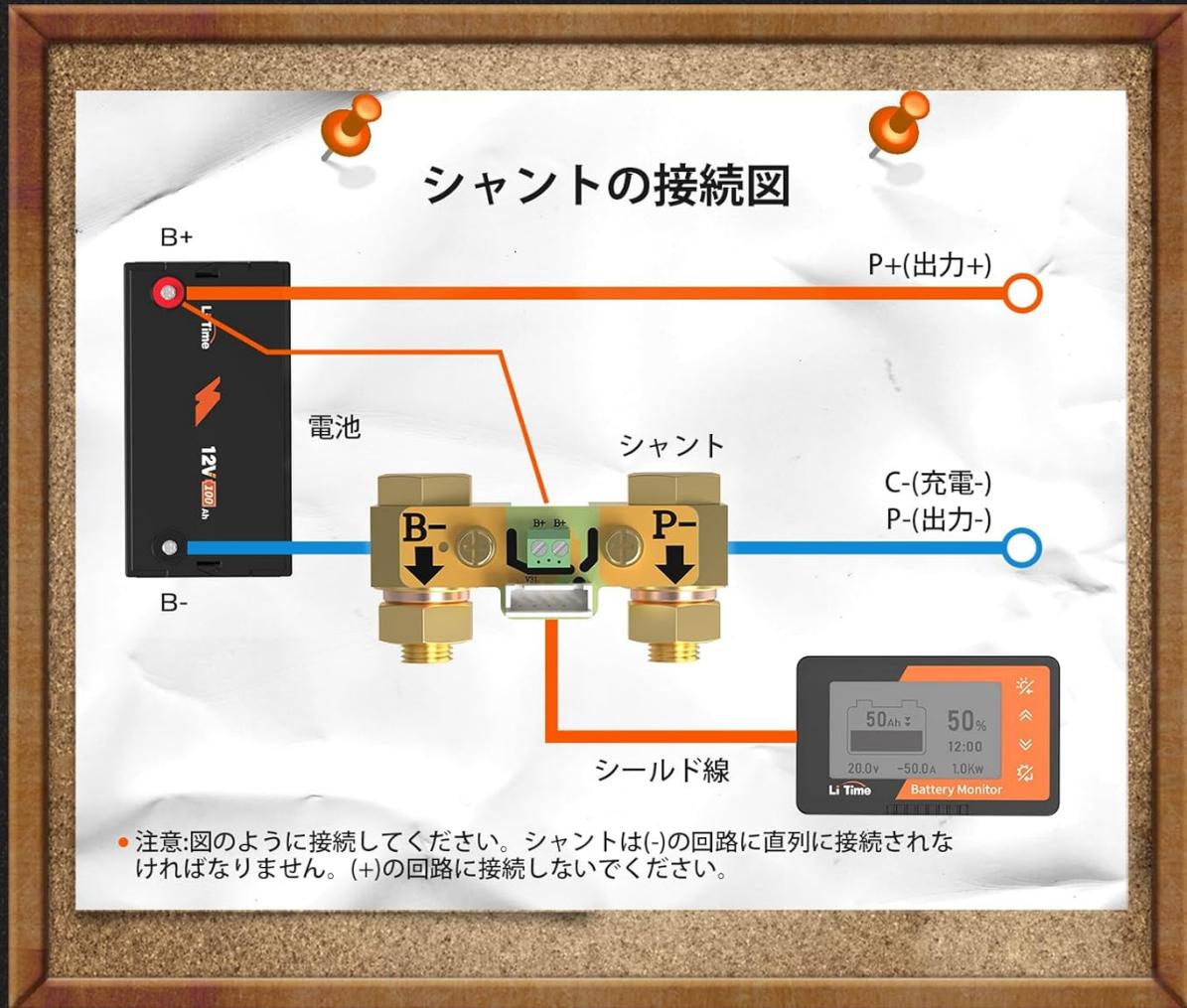


Image 3.2: Wiring diagram illustrating the connection of the shunt and monitor to the battery system. Ensure the shunt is connected to the negative terminal.

4. OPERATION

4.1 Basic Functions

- **Backlight Control:** Press and hold the **sun icon** button to turn the backlight ON/OFF.
- **Brightness Adjustment:** Short press the **up arrow** or **down arrow** buttons to adjust backlight brightness.
- **Capacity Setting:** Long press the **up arrow** button to set the current capacity to maximum. Long press the **down arrow** button to set the current capacity to zero.
- **Settings Interface:** Long press the **gear icon** button to enter the settings interface for advanced configurations.

4.2 Alarm Features

The LiTime 500A Battery Monitor includes a safety alarm feature. If the voltage or capacity drops below a preset value, the display will flash, and a buzzer will sound every 10 seconds to alert you. This allows for quick

identification of battery status and ensures safety.

5. MAINTENANCE

To ensure the longevity and optimal performance of your LiTime Battery Monitor, observe the following maintenance guidelines:

- Keep the monitor clean and free from dust and moisture.
- Avoid exposing the LCD screen to prolonged direct sunlight or extreme temperatures (below -10°C or above 50°C), as this may shorten its lifespan.
- Regularly check all connections for tightness and corrosion.

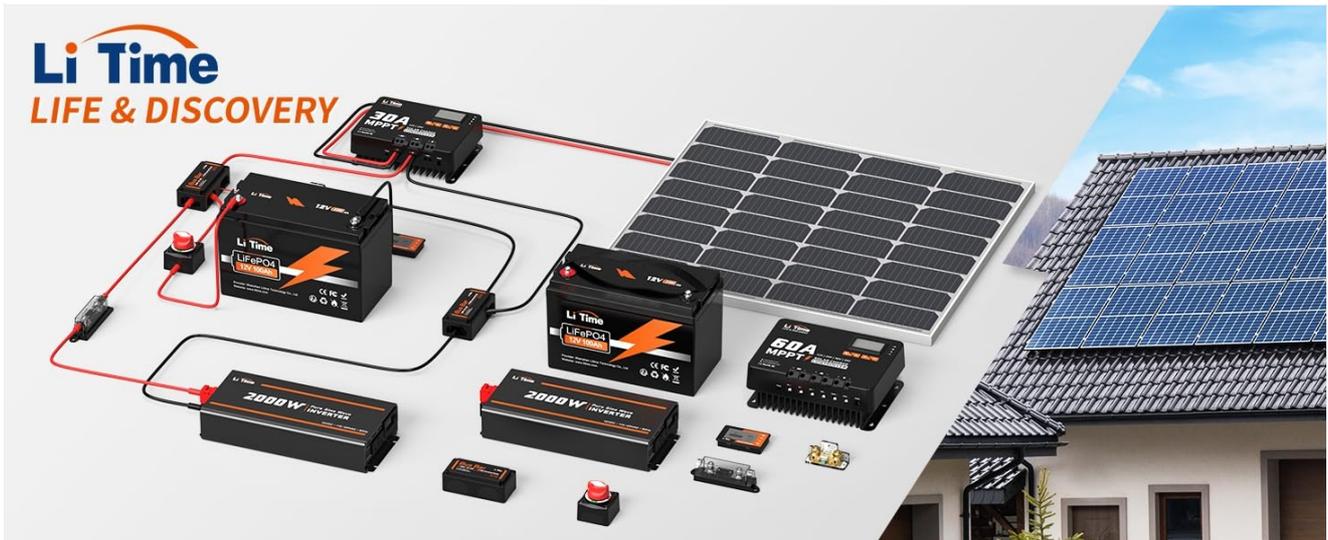


Image 5.1: Important notice regarding environmental conditions for the LCD display to prevent damage and ensure longevity.

6. TROUBLESHOOTING

If you encounter issues with your LiTime 500A Shunt Battery Monitor, refer to the following common problems and solutions:

- **No Display/Power:** Ensure all power connections are secure and the power cord is correctly attached. Check the battery voltage to confirm it is within the 8V-120V operating range.
- **Incorrect Readings:** Verify that the shunt is correctly installed in the negative circuit and all wiring is tight. Ensure the battery type and capacity settings are correctly configured in the monitor's settings interface.
- **Low Voltage/Capacity Alarm:** This indicates that your battery's voltage or capacity has fallen below the preset threshold. Recharge your battery promptly. If the alarm persists after charging, check battery health.
- **Display Flashing/Buzzer Sounding:** This is the low voltage/capacity alarm. Address the battery charge level or health.

7. SPECIFICATIONS

Feature	Specification
Brand	LiTime
Model Number	Basic

Feature	Specification
Color	Orange
Minimum Operating Voltage	8 Volts
Voltage Range	8V-120V
Current Range	0-500A (with included shunt)
Capacity Range	0-500AH
Display Type	LCD with Backlight
Dimensions (Monitor)	Approx. 100mm x 61mm x 18mm
Dimensions (Shunt)	Approx. 55mm x 35mm x 30.5mm
Weight	680 g (packaged)
Included Accessories	LCD Monitor, 500A Shunt, Shunt Holder, 20ft Shielded Cable, 20AWG 3ft Power Cord, Screwdriver, Mounting Screws, User Manual

8. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your LiTime 500A Shunt Battery Monitor, please refer to the official LiTime website or contact their customer service directly. Details can typically be found in the included product documentation or on the manufacturer's support pages.

9. PRODUCT VIDEO

Video 9.1: An introductory video showcasing the LiTime brand and its commitment to energy solutions. This video provides a brief overview of the company's mission and product range.