Hoembpn AU036-ES-FBA

Hoembpn YGL DC 8-63V LCD Battery Meter User Manual

Model: AU036-ES-FBA | Brand: Hoembpn

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Hoembpn YGL DC 8-63V LCD Battery Meter. This versatile device is designed to accurately measure both the voltage and capacity of various battery types, including Lithium, Lead-Acid, and Fe batteries, within a wide voltage range.

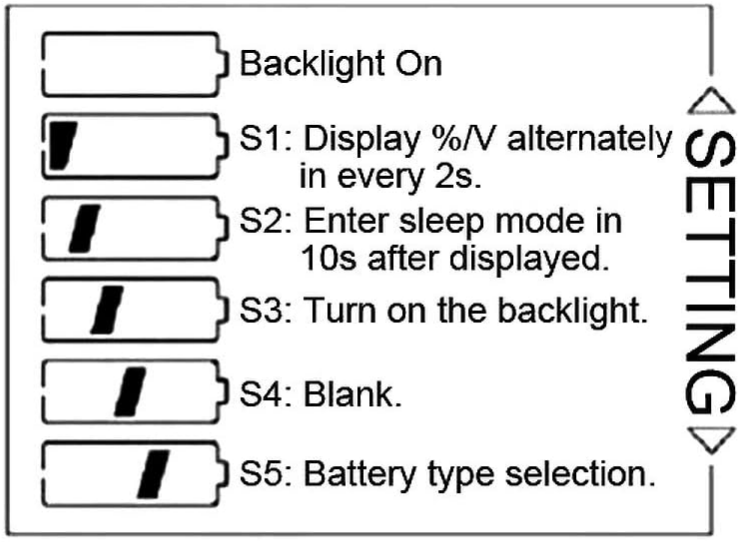
Key Features

- **Wide Voltage Range:** Supports DC 6V to 63V, adjustable for 12V, 24V, 36V, and 48V battery systems.
- **2-in-1 Functionality:** Measures both battery voltage and capacity.
- **Clear LCD Display:** Features a bright and easy-to-read LCD screen.
- **Simple Connection:** Built-in 30cm power cable for straightforward installation.
- **Reverse Protection:** Designed with reverse connection protection to prevent damage.
- **Broad Compatibility:** Suitable for Ternary Lithium batteries, Polymer batteries, Lithium-ion batteries, and Lead-Acid storage batteries. *Note: Not compatible with Lithium Iron Phosphate batteries, 1-2 series Li batteries, or more than 15 series Li batteries.*

Specifications

Color	Black
Backlight Color	Green
Display Screen Size	43 x 11.3 mm (1.69" x 0.44")
Voltage Range	DC 8-63V

Circuit Load Current	5 - 6mA
Dimensions	61.3 x 33.3 x 13.5 mm (2.41" x 1.31" x 0.53")
Mounting Hole Size	58 x 28.1 mm (2.28" x 1.11")
Cable Length	30 cm (11.8")
Product Weight	20 g



Battery Type:

P = Lead-acid batteries L = Lithium battery F = Fe Battery

Standard Voltage for each Battery:

Lead-acid batteries-12V Lithium battery-3.7V Fe Battery-3.2V

How to Set:

1. Hold the Setting Key while powering the Tester to enter Battery Setting Mode.
2. Press the Setting Key to select the battery type.
3. Press the Switch Key to adjust the battery quantity.
4. Hold the Switch Key to enter S1-S5 Selection Mode.
5. Press the Setting Key to select from S1-S5, press Switch Key to Turn ON/OFF the selected Function.
6. Power off to save the setting.

Image: Dimensional drawing of the battery meter, showing its length, width, and depth, along with mounting hole measurements.

Note: Specifications are subject to change without prior notice.

Package Contents

- 1 x Digital Battery Tester (Hoembpn YGL DC 8-63V LCD Battery Meter)

Setup

Wiring Connection

Connect the battery meter to your battery system using the provided connection wire. Ensure correct polarity to prevent damage, although the device features reverse protection.

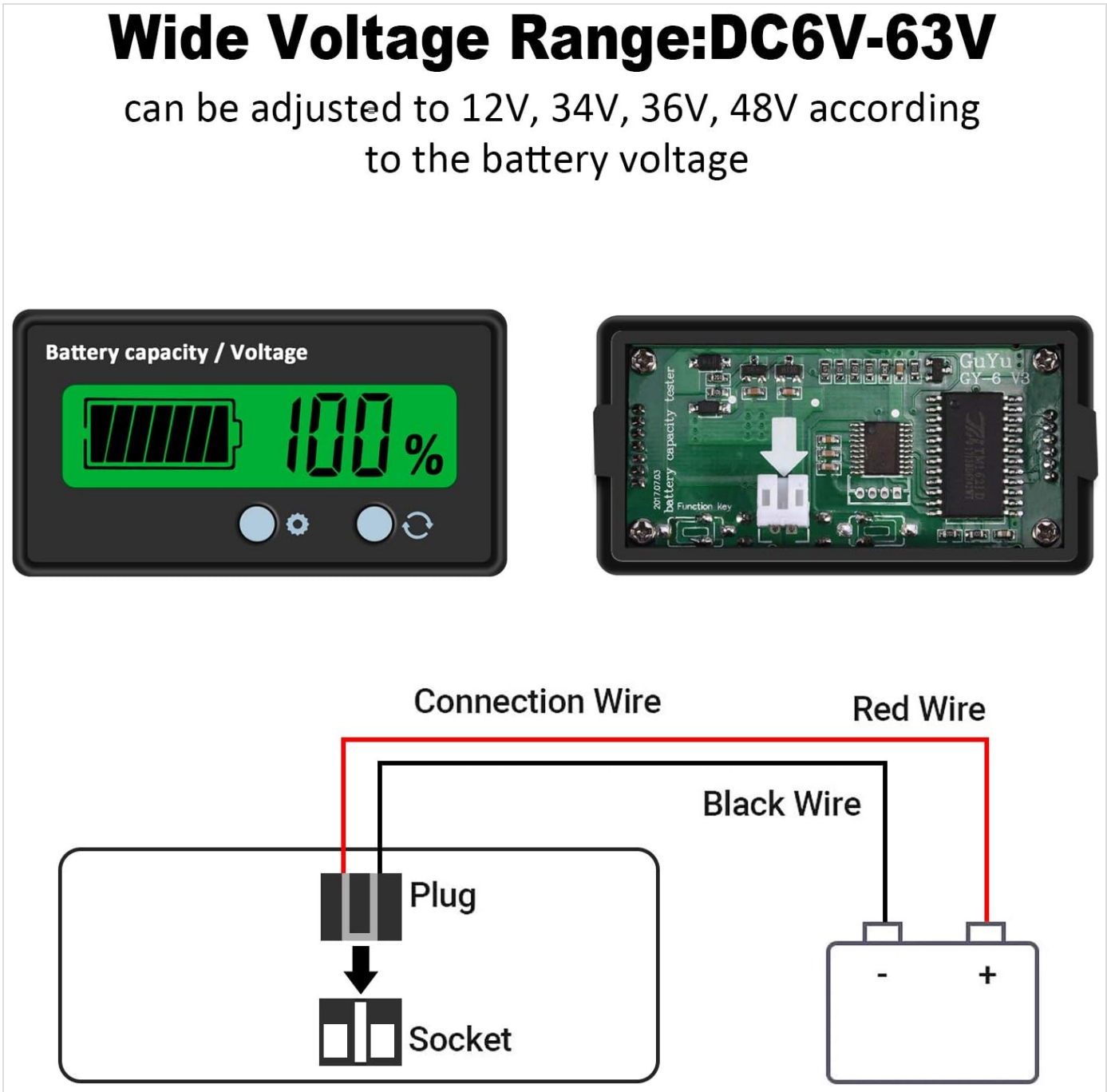


Image: Connection diagram illustrating how to connect the battery meter to a battery. The red wire connects to the positive terminal, and the black wire to the negative terminal.

Compatible Battery Types

The Hoembpn YGL Battery Meter is designed to work with a variety of battery chemistries. Ensure your battery type is compatible before proceeding with setup.

Suitable for:

Lithium Batteries & Lead Acid Batteries & Fe Batteries



Image: Examples of compatible battery types including Lithium, Lead-Acid, and Fe batteries.

Initial Configuration (Battery Type and Quantity Setting)

Before first use, you must configure the battery meter to match your battery type and quantity (number of series cells). Follow these steps:

1. **Enter Setup Interface:** Hold down the **Set Key** while powering on the product. This will enter the setup interface.
2. **Select Battery Specification:** Press the **Set Key** to cycle through battery types:
   - **P** = Lead-acid batteries (Standard Voltage: 12V per battery)
   - **L** = Lithium batteries (Standard Voltage: 3.7V per cell)
   - **F** = Fe batteries (Standard Voltage: 3.2V per cell)
3. **Select Battery Quantity:** Briefly press the **Function Key** (or Switch Key) to adjust the number of battery strings/cells. The Set Key increases the value, and the Function Key decreases it.
4. **Configure Display Mode (S1-S5):** Hold down the **Function Key** to enter the S1-S5 selection mode.
   - **S1:** Display percentage (%) and voltage (V) alternately every 2 seconds.
   - **S2:** Enter sleep mode after 10 seconds of display.
   - **S3:** Turn on the backlight.

- **S4:** Blank (Reserved).
- **S5:** Battery type selection (P, L, F).

Press the **Setting Key** to select from S1-S5, then press the **Switch Key** to turn ON/OFF the selected function.

5. **Save Settings:** Power off the device to save the settings.

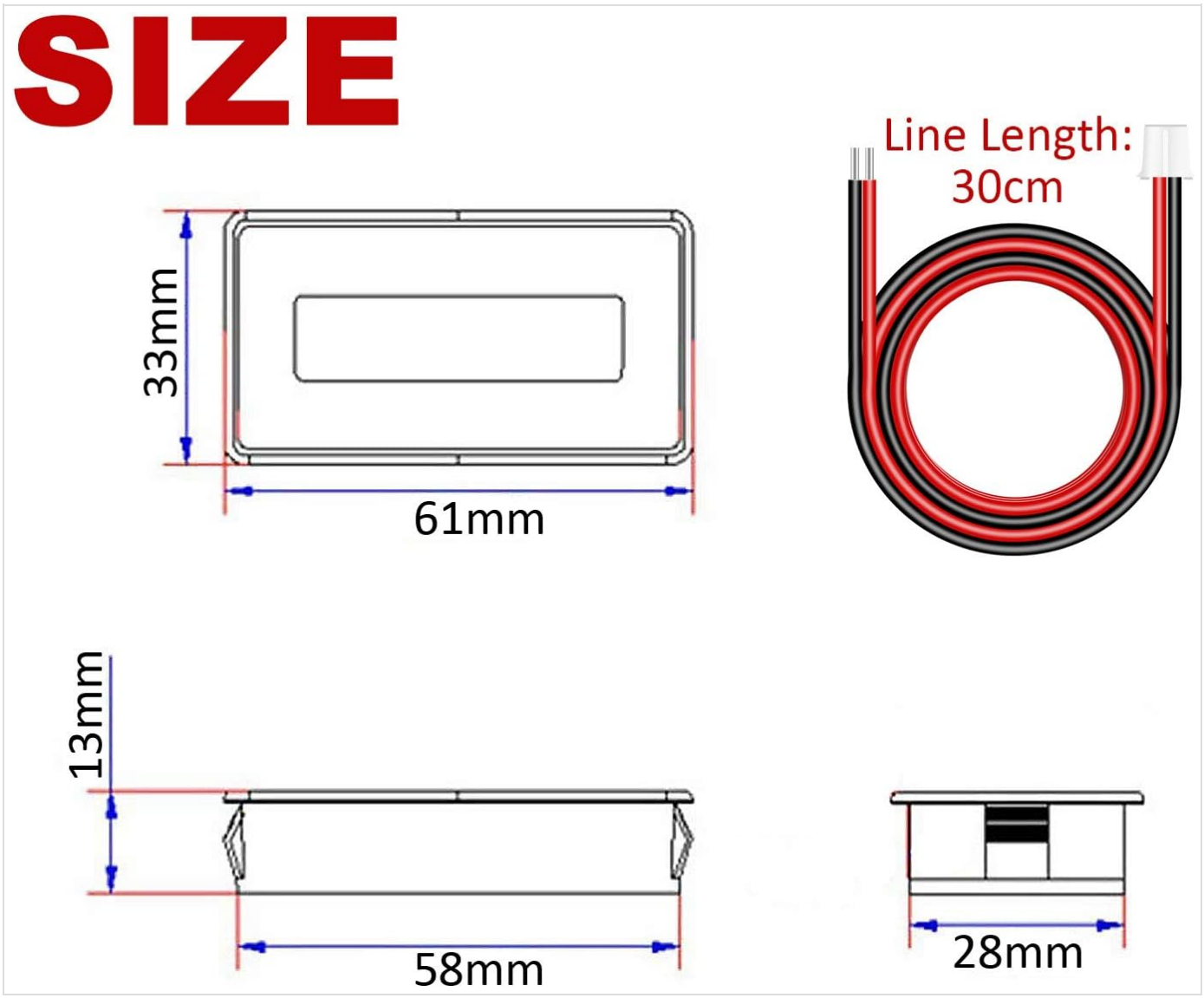


Image: Setup instructions detailing battery type selection (Lead-acid, Lithium, Fe) and display mode configurations (S1-S5).

Operation

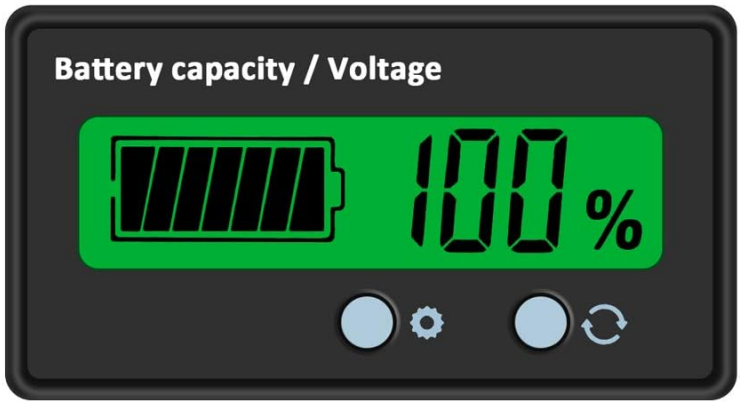
Once configured, the Hoembpn YGL Battery Meter will display the battery's current status. The device can show both battery capacity as a percentage and the current voltage.

Display Modes

The meter can display battery capacity (percentage) and voltage (V). You can switch between these displays or have them alternate based on your S1 setting.

2 in 1 Battery Meter

The DC battery meter can not only measure the battery voltage, but also the capacity



Measure the battery capacity

Measure the battery voltage

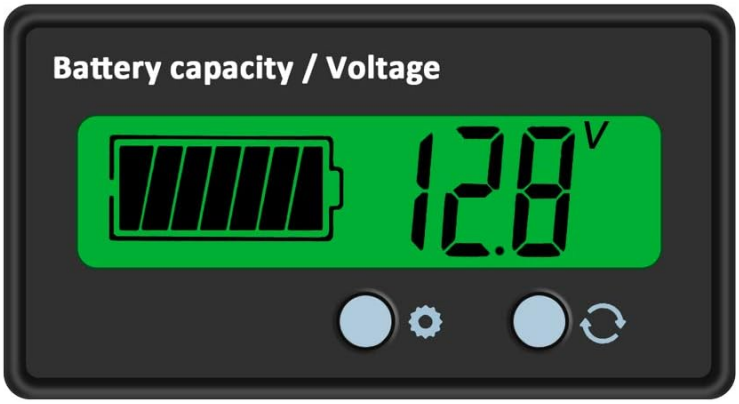


Image: Battery meter showing 100% battery capacity.

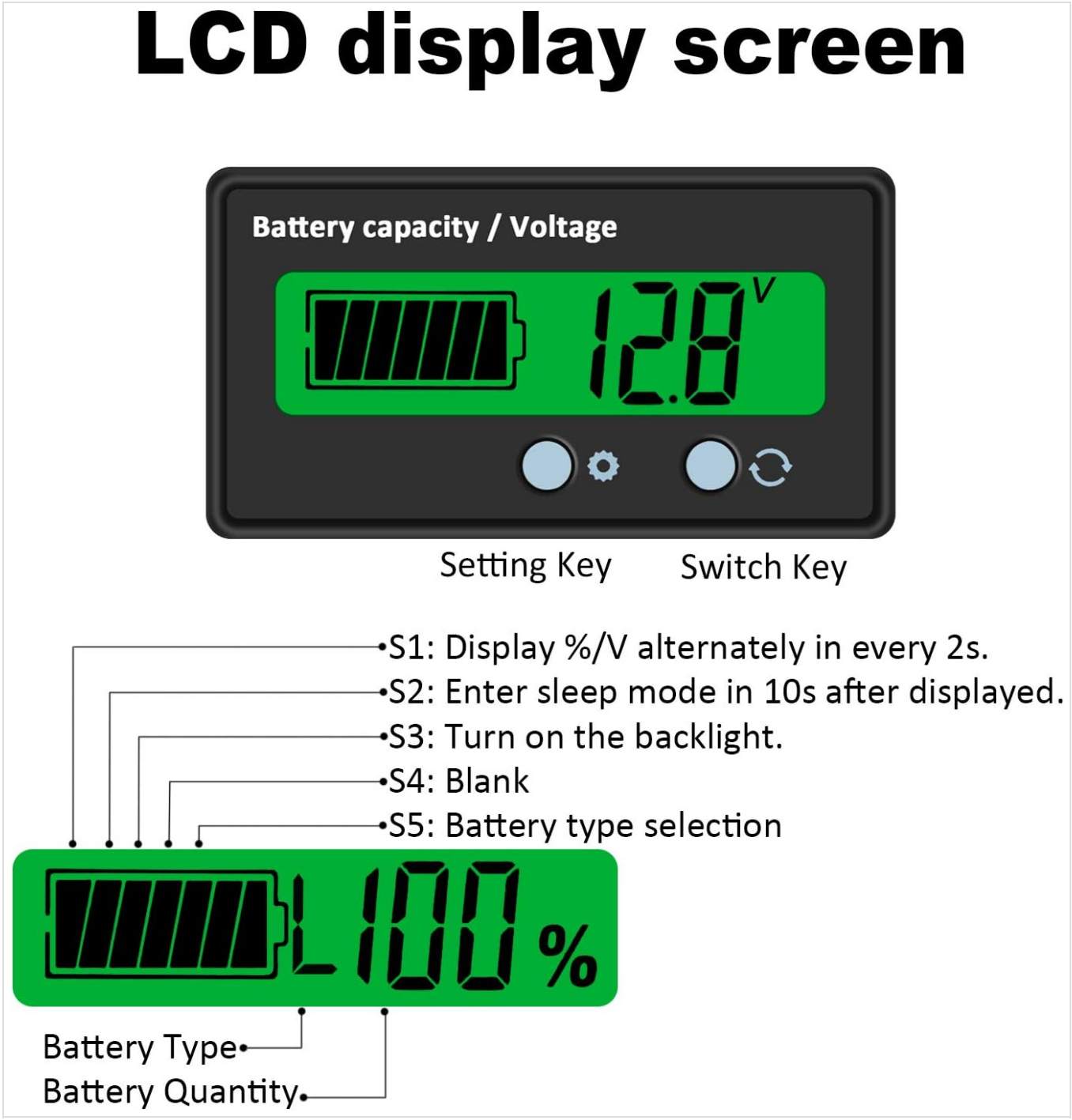


Image: Battery meter showing 12.8V battery voltage.

The display features a "Setting Key" and a "Switch Key" for navigation and configuration, as detailed in the setup section.

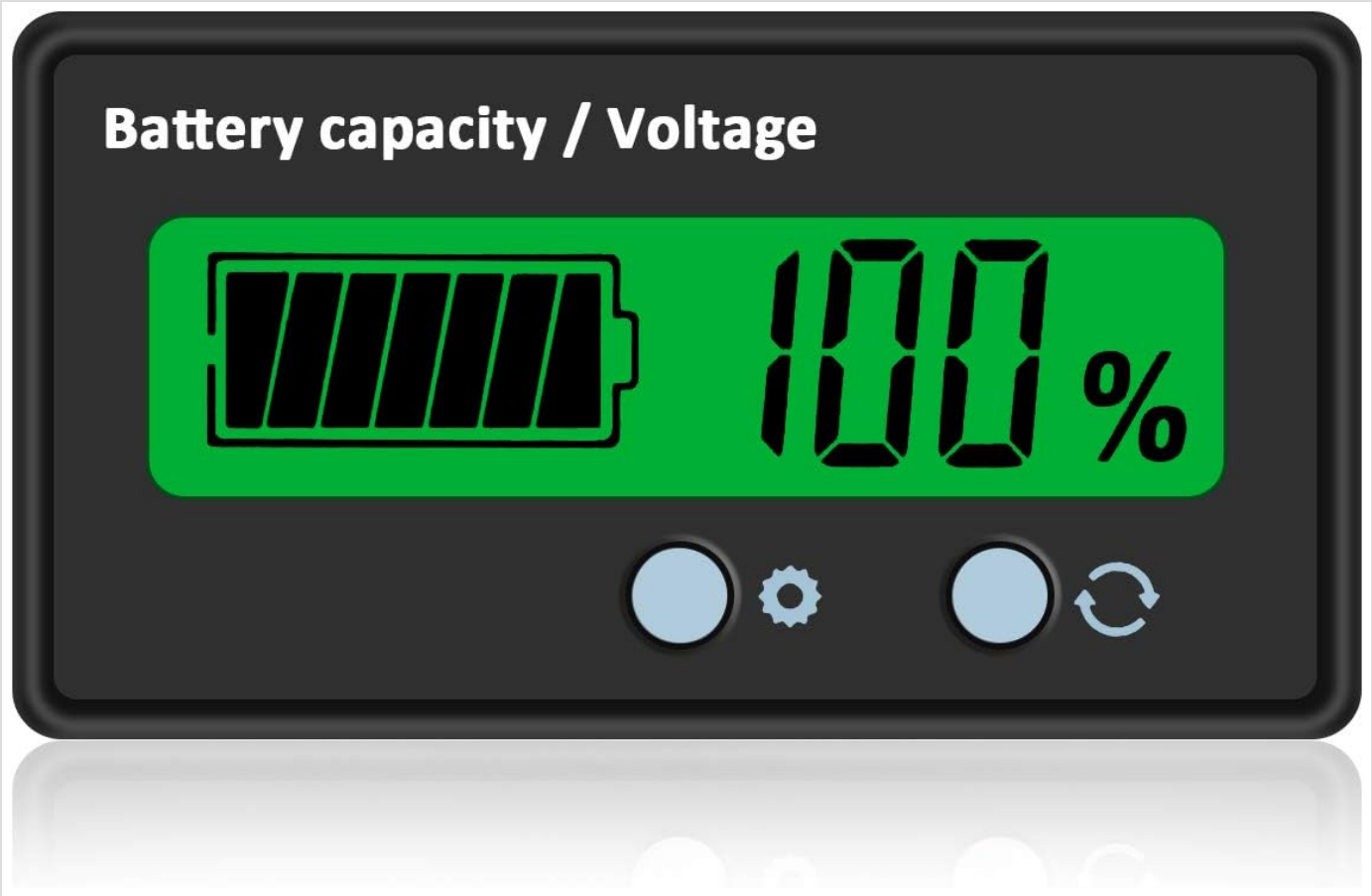


Image: Front view of the battery meter displaying both battery capacity and voltage.

Maintenance

The Hoembpn YGL Battery Meter requires minimal maintenance. To ensure optimal performance and longevity:

- Keep the device clean and free from dust and moisture. Use a soft, dry cloth for cleaning.
- Avoid exposing the meter to extreme temperatures or direct sunlight for prolonged periods.
- Ensure all connections are secure and free from corrosion.
- Do not attempt to disassemble or repair the device yourself, as this may void the warranty and cause damage.

Troubleshooting

If you encounter issues with your Hoembpn YGL Battery Meter, consider the following common solutions:

- **No Display:**
  - Check if the power cable is securely connected to the battery.
  - Verify that the battery has sufficient voltage within the meter's operating range (8-63V).
  - Ensure correct polarity (+/-) of the connection.
- **Incorrect Readings:**
  - Re-check the battery type (P, L, F) and quantity settings in the setup menu. Incorrect settings will lead to inaccurate readings.
  - Ensure the battery itself is functioning correctly.
- **Display Flickering:**
  - Check for loose connections.

- Ensure stable power supply from the battery.

If the problem persists after attempting these solutions, please contact customer support.

Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the seller's policy or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.

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