

[Manuals.plus](#) /

› [diymore](#) /

› diymore Battery Capacity Indicator DC7-100V (Style 1) User Manual

diymore Style 1

diymore Battery Capacity Indicator DC7-100V (Style 1) User Manual

Model: Style 1

1. INTRODUCTION

The diymore Battery Capacity Indicator is a versatile digital display designed to monitor the voltage and charge percentage of various battery types. It supports a wide voltage range from 7V to 100V, making it suitable for 12V, 24V, 36V, 48V, 60V, 72V, and 84V battery systems. This device is compatible with lithium batteries, lead-acid batteries, and lithium iron phosphate (LiFePO4) batteries. Its clear color display provides real-time information on battery status.



Image: The diymore Battery Capacity Indicator (Style 1) displaying 24.40V and 100% charge, with a colorful battery bar.

2. PRODUCT FEATURES

- **Wide Compatibility:** Suitable for lithium, lead-acid, and LiFePO4 batteries with voltages from 7V to 100V (12V, 24V, 36V, 48V, 60V, 72V, 84V).
- **Clear Color Display:** Provides clear readings of power and percentage.
- **Six Setting Modes:** Includes settings for lead-acid (P), lithium-iron (F), LiFePO4, custom high/low voltage, backlight adjustment, and low voltage alarm.
- **Easy Operation:** Simple button presses for display control and entering settings.
- **Power-off Memory:** Energy-saving function with power-off memory.
- **Reverse Polarity Protection:** Designed to prevent damage from incorrect wiring.
- **IP67 Waterproof Rating:** Provides protection against water ingress (note: not for prolonged submersion).

3. SETUP AND INSTALLATION

3.1 Physical Dimensions

Before installation, ensure the product dimensions are suitable for your intended mounting location.

PRODUCT SIZE & DETAILS

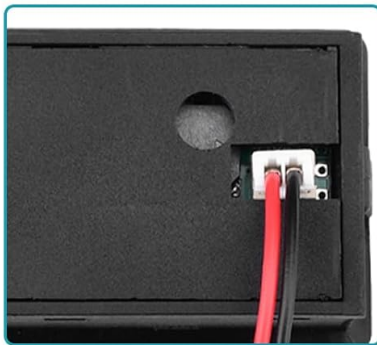


Image: Diagram showing the dimensions of the battery capacity indicator: 63mm (2.48in) length, 34mm (1.34in) width, and 15mm (0.59in) depth. Also shows close-ups of the wiring connector and back vents.

3.2 Wiring Connection

Connect the indicator to your battery system. The device features reverse polarity protection to prevent damage from incorrect wiring. Ensure proper connection for both series and parallel battery configurations.

IP67 Waterproof

⚠ **NOTE:** Waterproof, but not exposed to water for a long time



Image: Wiring diagrams illustrating how to connect the battery capacity indicator to batteries in series and parallel configurations. The diagram highlights reverse polarity protection.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

- **Power On/Off:** Briefly press the "PWR" button on the main side to turn the display on or off.
- **Enter Settings Mode:** Press and hold the "SET" button for 2 seconds to enter the mode setting function page.

4.2 Mode Setting Instructions

The device offers several setting modes to configure it for different battery types and preferences.

Acid battery P measurement



1. On the main page, press and hold the SET key for 2 seconds to enter the mode setting function lead-acid battery setting page
2. Display "SET-12 P" (lead-acid battery 12V)
3. Short press the power key to make the number flash, and then short press the power key to select the required lead-acid battery voltage (12V/24V/36V/48V/60V/72V/84V),
4. After selecting the voltage to be set, short press the SET key to confirm (the number will light up and save after confirmation)
5. Press and hold the SET key for 2 seconds again to return to the main page, and the setting is completed

Image: A visual guide listing the available mode settings: Acid battery P measurement, Ternary lithium battery L measurement, Fe lithium battery F measurement, Custom voltage setting, Low voltage alarm setting, and Backlight setting.

4.2.1 Acid Battery (P) Measurement Setting

1. On the main page, press and hold the "SET" button for 2 seconds to enter the mode setting function page for lead-acid battery settings.
2. The display will show "SET-12 P" (for a 12V lead-acid battery).
3. Short press the "PWR" button to make the number flash, then short press the "PWR" button again to select the required lead-acid battery voltage (12V, 24V, 36V, 48V, 60V, 72V, 84V).
4. After selecting the voltage, short press the "SET" button to confirm (the number will light up and save after confirmation).
5. Press and hold the "SET" button for 2 seconds again to return to the main page. The setting is now complete.

Ternary lithium battery setting



1. On the main page, press and hold the SET button for 2 seconds to enter the mode setting function page
2. Short press the SET button to select the ternary lithium battery setting page: "SET-03L" (ternary lithium battery 3 strings)
3. Short press the power button to make the number flash, and then short press the power button to select the required number of ternary lithium battery strings (03/04/05----19/20 strings)
4. After selecting the number of strings to be set, short press the SET button to confirm (the number will light up and save after confirmation)
5. Long press the SET button for 2 seconds again to return to the main page, and the setting is completed

Image: The display showing "SET-12 P" with detailed steps for configuring the indicator for lead-acid batteries.

4.2.2 Ternary Lithium Battery (L) Setting

1. On the main page, press and hold the "SET" button for 2 seconds to enter the mode setting function page.
2. Short press the "SET" button to select the ternary lithium battery setting page: "SET-03L" (for a ternary lithium battery with 3 strings).
3. Short press the "PWR" button to make the number flash, then short press the "PWR" button again to select the required number of ternary lithium battery strings (03/04/05...19/20 strings).
4. After selecting the number of strings, short press the "SET" button to confirm (the number will light up and save after confirmation).
5. Long press the "SET" button for 2 seconds again to return to the main page. The setting is now complete.

Lithium iron battery settings



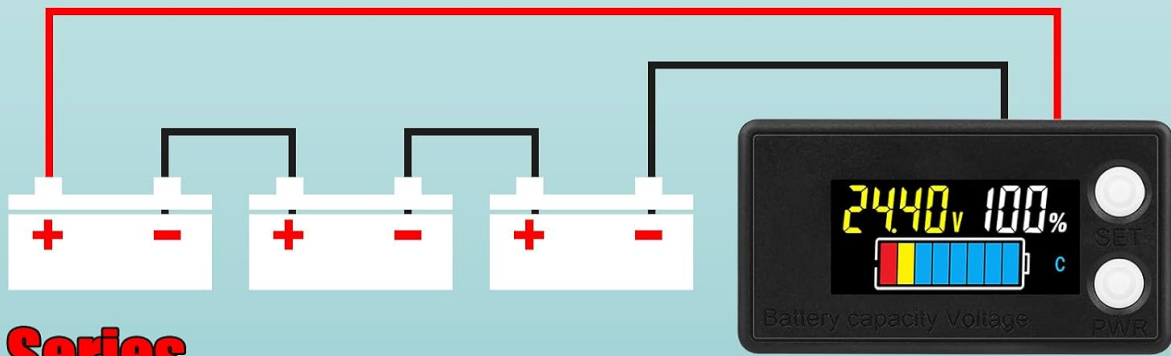
1. On the main page, press and hold the SET button for 2 seconds to enter the mode setting function page:
2. Short press the SET button to select the iron-lithium battery setting page: "SET-03 F" (iron-lithium battery 3 strings)
3. Short press the power button to make the number flash, and then short press the power button to select the required number of iron-lithium battery strings (03/04/05----24/25 strings)
4. After selecting the number of strings to be set, short press the SET button to confirm (the number will light up after confirmation and save)
5. Long press the SET button for 2 seconds again to return to the main page, and the setting is completed

Image: The display showing "SET-03 L" with detailed steps for configuring the indicator for ternary lithium batteries.

4.2.3 Lithium Iron (F) Battery Setting

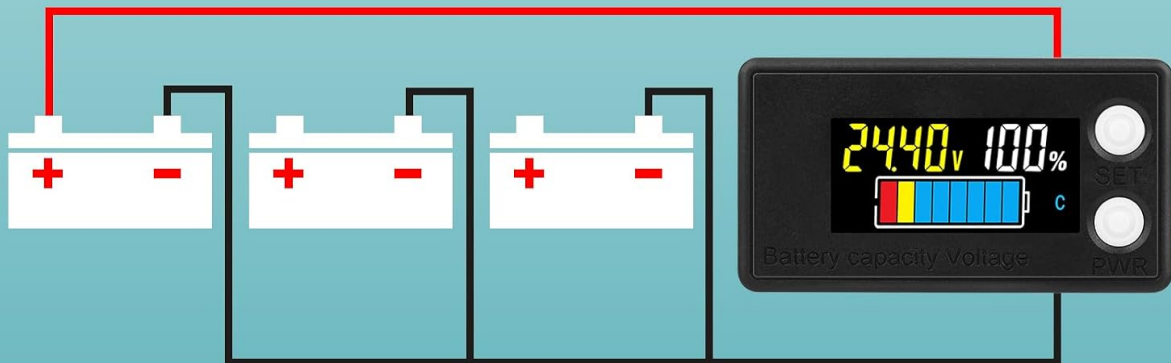
1. On the main page, press and hold the "SET" button for 2 seconds to enter the mode setting function page.
2. Short press the "SET" button to select the iron-lithium battery setting page: "SET-03 F" (for an iron-lithium battery with 3 strings).
3. Short press the "PWR" button to make the number flash, then short press the "PWR" button again to select the required number of iron-lithium battery strings (03/04/05...24/25 strings).
4. After selecting the number of strings, short press the "SET" button to confirm (the number will light up and save after confirmation).
5. Long press the "SET" button for 2 seconds again to return to the main page. The setting is now complete.

POLARITY PROTECTION



Series

NOTE: Easy connection with reverse polarity protection, does not burn with reverse connection



Parallel Holding

Image: The display showing "SET-03 F" with detailed steps for configuring the indicator for lithium iron batteries.

4.2.4 Low Voltage Alarm Setting

1. On the main page, press and hold the "SET" button for 2 seconds to enter the mode setting function page.
2. Short press the "SET" button to select the low voltage alarm setting page: "00.00V" (low voltage alarm setting mode).
3. Short press the "PWR" button to make the number flash, then short press the "SET" button to adjust the value.
4. Short press the "PWR" button to switch between digits for setting.
5. After all 4 digits are set, press and hold the "SET" button for 2 seconds to confirm (all 4 digits will remain lit and saved).
6. Press and hold the "SET" button for 2 seconds again to return to the main page. The setting is now complete.

Low voltage alarm setting



On the main page, press and hold the SET button for 2 seconds to enter the mode setting function page: Short press the SET button to select the low voltage alarm setting page: "00.00v" (low voltage alarm setting mode)

Short press the power button to make the number flash, then short press the SET button to set the value

Short press the power button to switch the digit setting, after all 4 digits are set

Press and hold the SET button for 2 seconds to confirm (all 4 digits are always on and saved)

Press and hold the SET button for 2 seconds again to return to the main page, and the setting is complete

Image: The display showing "00.00V" with a lightning bolt icon and a low battery symbol, along with detailed steps for configuring the low voltage alarm.

5. MAINTENANCE

The diymore Battery Capacity Indicator is designed for durability and features an IP67 waterproof rating. However, proper care is essential for its longevity.

- **Water Resistance:** The device is waterproof, but it should not be exposed to water for prolonged periods or submerged.
- **Cleaning:** Use a soft, dry cloth to clean the display and casing. Avoid abrasive cleaners or solvents.
- **Storage:** Store the device in a dry environment when not in use.



Image: The battery capacity indicator shown with water droplets, indicating its IP67 waterproof rating. A note warns against prolonged water exposure.

6. TROUBLESHOOTING

If you encounter issues with your diymore Battery Capacity Indicator, please refer to the following common troubleshooting steps:

- **No Display:**

- Check all wiring connections to ensure they are secure and correctly polarized.
- Verify that the battery voltage is within the operating range of 7V-100V.
- Ensure the "PWR" button has been pressed to turn on the display.

- **Incorrect Readings:**

- Confirm that the correct battery type and voltage/string settings have been configured in the settings menu (refer to Section 4.2).
- Test the battery voltage with a separate multimeter to cross-reference readings.

- **Settings Not Saving:**

- Ensure you press and hold the "SET" button for 2 seconds to confirm and save settings after

making changes.

If problems persist, contact customer support for further assistance.

7. SPECIFICATIONS

Feature	Specification
Brand	diymore
Model	Style 1
Applicable Battery Types	Lithium, Lead-Acid, LiFePO4
Operating Voltage Range	DC 7V-100V
Minimum Operating Voltage	7 Volts (DC)
Measurement Type	Voltmeter
Color	Black
Included Components	Battery Capacity Voltage Meter
Waterproof Rating	IP67 (not for prolonged submersion)

8. APPLICATIONS

This battery capacity indicator is suitable for a wide range of applications where battery monitoring is essential, including:

- Electric Motorcycles
- Motorcycles
- Golf Carts
- Automobiles
- RVs (Recreational Vehicles)
- Boats
- Forklifts
- Solar Power Systems
- Other DIY battery projects

APPLICATION

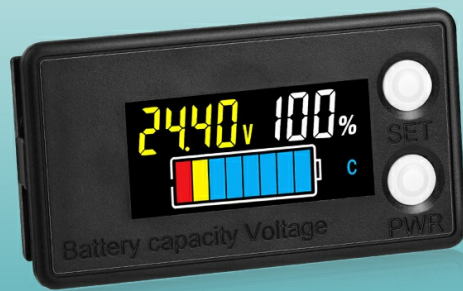


Image: A collage showing the battery capacity indicator in the center, surrounded by images of a forklift, truck, RV, golf cart, and boat, illustrating its diverse applications.

9. SUPPORT AND WARRANTY

diymore is committed to meeting your expectations with high-quality products and reliable customer service.

- **Quality Assurance:** Products are manufactured with best quality and safest processing.
- **Technical Support:** A professional team of technicians is available for support.
- **Customer Service:** Dedicated customer service is provided for any inquiries or issues.



Image: A banner displaying the diymore logo and the text "OUR PROMISE TO YOU: Meeting Your Expectations," with icons representing production quality, safety, and professional customer service.