

RIMADMIADIND BMS 1S-7S 18650 Li-ion Battery Capacity Indicator

RIMADMIADIND BMS 1S-7S 18650 Li-ion Battery Capacity Indicator User Manual

Brand: RIMADMIADIND | Model: BMS 1S-7S 18650 Li-ion Battery Capacity Indicator

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your RIMADMIADIND BMS 1S-7S 18650 Li-ion Battery Capacity Indicator. This device is designed to accurately display the remaining charge level of 1S to 7S series Li-ion battery packs, providing essential information for various electronic applications, including electric drills and other portable devices.

2. SAFETY INFORMATION

Please read and understand all safety instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the power source is disconnected before making any connections to the indicator module.
- Verify the correct polarity (+/-) when connecting the battery to the indicator. Incorrect connections can damage the device and the battery.
- Do not exceed the specified voltage range for the indicator (1S-7S Li-ion battery packs).
- Keep the device away from moisture, extreme temperatures, and corrosive environments.
- Do not attempt to disassemble or modify the indicator module.
- Handle with care to avoid damage to the electronic components.

3. PRODUCT OVERVIEW

3.1 Features

- High-quality electronic components for reliable and long-lasting performance.

- User-friendly design for easy installation and operation.
- Versatile applications, suitable for industrial, automotive, and household electronics.
- Clear Green/Blue LED light display for easy readability.
- Compatible with 1S, 2S, 3S, 4S, 6S, and 7S Li-ion battery configurations.

3.2 Components

The RIMADMIADIND Battery Capacity Indicator consists of a compact circuit board with an integrated LED display. Key components include the LED segments for visual indication, control circuitry, and connection pads for battery input.

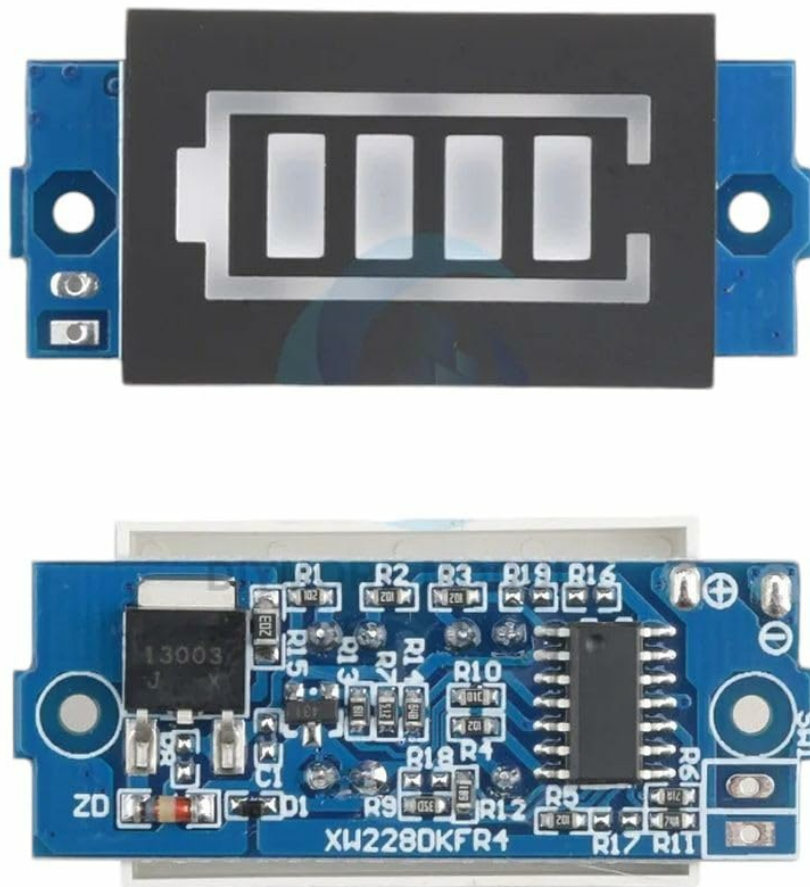


Figure 1: Front and back view of the RIMADMIADIND BMS 1S-7S 18650 Li-ion Battery Capacity Indicator module. The top view shows the LED display with a battery icon, indicating charge levels. The bottom view reveals the circuit board with various electronic components, including resistors, capacitors, and an integrated circuit, essential for its functionality.

4. SETUP

Follow these steps to correctly install the battery capacity indicator:

1. **Prepare the Battery:** Ensure your Li-ion battery pack (1S to 7S) is fully charged or at a known charge level for initial testing.
2. **Identify Connections:** Locate the positive (+) and negative (-) terminals on both your battery pack and the indicator module. The indicator module typically has clearly marked pads or wires.
3. **Connect Negative Terminal:** Carefully connect the negative (-) terminal of your battery pack to the negative (-) input on the indicator module.
4. **Connect Positive Terminal:** Carefully connect the positive (+) terminal of your battery pack to the positive (+) input on the indicator module.
5. **Verify Connection:** Double-check all connections for correct polarity and secure attachment.
6. **Power On:** Once connected, the indicator module should light up, displaying the current battery capacity.

5. OPERATING INSTRUCTIONS

The RIMADMIADIND Battery Capacity Indicator operates automatically once connected to a compatible Li-ion battery pack. The display will show the battery's charge level using a series of illuminated LED segments within a battery icon.

- **Full Battery:** All segments of the battery icon are illuminated.
- **Partial Charge:** A corresponding number of segments will be illuminated, indicating the approximate remaining capacity. For example, three segments lit might indicate 75% charge, two segments 50%, and one segment 25%.
- **Low Battery:** Typically, only the outline or the lowest segment will flash or remain lit, indicating that the battery requires recharging.

The indicator continuously monitors the battery voltage and updates the display in real-time.

6. MAINTENANCE

To ensure the longevity and accurate performance of your battery capacity indicator, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe the display and module. Avoid using abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, store the module in a dry, cool environment, away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect the connections for any signs of corrosion or loose wiring.
- **Avoid Physical Shock:** Protect the module from drops or impacts, which can damage internal components.

7. TROUBLESHOOTING

If you encounter issues with your battery capacity indicator, refer to the table below for common problems and solutions:

Problem	Possible Cause	Solution
Indicator does not light up.	Incorrect polarity; Loose connection; Battery discharged; Faulty module.	Check positive and negative connections; Secure all wires; Charge battery; Contact support if module is faulty.
Incorrect capacity reading.	Incorrect battery type (not Li-ion); Module incompatible with S-count; Battery calibration issue.	Ensure Li-ion battery is used; Verify battery S-count is within 1S-7S range; Fully charge and discharge battery to recalibrate.
Display is dim or flickering.	Low battery voltage; Poor connection; Environmental factors.	Charge battery; Check and secure connections; Ensure operating within recommended temperature range.

8. SPECIFICATIONS

- **Brand:** RIMADMIADIND
- **Model:** BMS 1S-7S 18650 Li-ion Battery Capacity Indicator
- **Compatible Battery Types:** 18650 Li-ion (1S, 2S, 3S, 4S, 6S, 7S series)
- **Display Type:** Green/Blue LED Light Display
- **ASIN:** B0F1LYLB3M
- **Manufacturer:** RIMADMIADIND
- **Date First Available:** March 15, 2025

9. WARRANTY AND SUPPORT

RIMADMIADIND products are manufactured to high-quality standards. This product comes with a money-back guarantee, reflecting our confidence in its quality and performance. For any questions, concerns, or technical assistance, please contact RIMADMIADIND customer support. Our knowledgeable team is ready to assist you to ensure the best possible experience with your product.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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