

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

› [Taidacent](#) /

› [Taidacent H56CH Digital Hall Coulomb Counting Battery Monitor User Manual \(100V 300A\)](#)

Taidacent H56CH 100V 300A

Taidacent H56CH Digital Hall Coulomb Counting Battery Monitor User Manual

Model: 100V 300A with Buzzer Alarm Function

1. INTRODUCTION

The Taidacent H56CH Digital Hall Coulomb Counting Battery Monitor is designed to accurately measure and display battery parameters such as voltage, current, and capacity. This device is suitable for lead-acid and lithium battery systems, providing essential information for battery management. This manual provides detailed instructions for installation, operation, and maintenance of the 100V 300A model with buzzer alarm function.

2. SAFETY INFORMATION

- **Wiring Precautions:** Always follow the wiring diagram strictly. The coulomb counter must be connected to the **negative circuit** of the battery. Connecting it to the positive circuit is strictly prohibited and may cause damage or malfunction.
- **Environmental Conditions:** Do not expose the coulomb counter to direct sunlight for extended periods. Avoid extreme temperatures; the device should not be exposed to conditions below -20°C or above 60°C for prolonged durations.
- **Installation:** Ensure the device is securely fixed using its buckle mechanism.

3. PRODUCT FEATURES

- Digital Hall Coulomb Counting for precise battery monitoring.
- LCD display with backlight for clear readability.
- Measures voltage, current, and capacity.
- Buzzer alarm function for critical alerts.
- Suitable for lead-acid and lithium battery types.
- Easy buckle-fixed installation.

4. SPECIFICATIONS

Parameter	Value
Product Model	H56CH
Working Voltage	9~100V
Current Range	300A (This model)
Capacity Range	0~99999Ah
Display Mode	LCD with backlight
Working Current	7.5mA
Backlight Off Current	3.5mA
Capacity Accuracy	1% (± 1 word)
Voltage Accuracy	1% (± 1 word)
Current Accuracy	1% (± 1 word)
Dimensions	79*43*27mm
Hole Size	76.5*39.5mm
Display Size	49*24mm
Backlight Color	Green
Working Temperature	-10~+65°C
Lead Length	Standard 15CM

5. SETUP AND INSTALLATION

5.1 Physical Installation

1. **Prepare Panel:** Open a rectangular hole on the panel of your device according to the specified hole size (76.5*39.5mm).
2. **Insert Monitor:** Place the coulomb counter into the prepared rectangular hole.
3. **Secure Device:** Press firmly to engage the buckle mechanism, ensuring the device is securely fastened.

5.2 Wiring Instructions

Important: The coulomb counter must be connected to the **negative circuit** of the battery. Connecting to the positive circuit is strictly prohibited.

1. **Sensor Connection:** All wires from the positive (or negative) terminal of the battery must pass through the sensor for current measurement.
2. **Verify Current Direction:** After wiring, check the display. The coulomb counter should show a positive current value when the battery is charging and a negative current value when discharging. If the current direction is reversed, it indicates that the sensor is connected upside down. Correct this by reversing the sensor's orientation.



Figure 1: Example wiring diagram for the Taidacent H56CH Battery Monitor. Ensure the sensor is correctly oriented on the negative battery line.

6. OPERATING INSTRUCTIONS

6.1 Automatic Mode (Recommended)

The automatic mode simplifies initial setup and capacity calibration. It is recommended for ease of use.

1. **Current Zeroing (if needed):** If the coulomb counter displays a non-zero current when there is no load, it needs to be cleared. Ensure no load is connected, then perform the current zeroing procedure (refer to troubleshooting if specific button is not mentioned here).
2. **Initial Capacity Reset:** After the first use or battery replacement, the displayed capacity may not be accurate. To calibrate:
 - **Empty Battery:** Fully discharge the battery until it is empty.
 - **Reset Capacity:** Press and hold the designated button (usually the 'SET' or 'OK' button, or as per device specific instructions) for 3 seconds. The capacity value and percentage on the display will clear.
 - **Full Charge:** Begin charging the battery. The capacity will automatically display 100% once fully charged. This

process is fully automatic and requires no further manual settings.

6.2 Manual Capacity Adjustment (Special Case)

If, after a full charge, the capacity does not automatically display 100%, you can manually adjust it:

- **Manual Fill to 100%:** While the charger is still connected and the battery is fully charged, press and hold the "up" button on the device. This will manually set the displayed capacity to 100%.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the display and casing. Do not use abrasive cleaners or solvents.
- **Environmental Protection:** Protect the device from prolonged exposure to direct sunlight, extreme heat, or extreme cold. Ensure it operates within the specified temperature range of -10°C to +65°C.
- **Connection Checks:** Periodically inspect all wiring connections to ensure they are secure and free from corrosion.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Current display is incorrect (e.g., positive during discharge, negative during charge).	Sensor is connected upside down.	Reverse the orientation of the current sensor.
Current display is not zero under no-load conditions.	Initial calibration required or drift.	Ensure no load is connected, then perform a current zeroing operation (refer to device-specific button functions if available, otherwise, a power cycle might help).
Battery capacity does not display 100% after a full charge.	Automatic calibration not completed or minor discrepancy.	While the charger is still connected and the battery is fully charged, press and hold the "up" button to manually set capacity to 100%.
Display is blank or not functioning.	No power, incorrect wiring, or device malfunction.	Check power connections and wiring. Ensure working voltage is within 9-100V. If issues persist, contact support.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

Warranty details for the Taidacent H56CH Digital Hall Coulomb Counting Battery Monitor are not explicitly provided in the product information. Please refer to the retailer or manufacturer's official website for specific warranty terms and conditions.

9.2 Technical Support

For technical assistance, troubleshooting beyond this manual, or inquiries regarding your device, please contact Taidacent customer support or the retailer from whom the product was purchased. Contact information can typically be found on the manufacturer's official website or product packaging.



© 2026 Taidacent. All rights reserved.