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Taidacent H56CH Digital Hall Coulomb Counting Battery Monitor (100V 200A) User Manual

Model: H56CH | Brand: Taidacent

1. PRODUCT OVERVIEW

The Taidacent H56CH is a Digital Hall Coulomb Counting Battery Monitor designed to accurately measure and display the voltage, current, and capacity of lead-acid and lithium batteries. This model supports a 100V voltage range and a 200A current range, featuring an LCD display with backlight and a buzzer alarm function for enhanced monitoring.



Image 1.1: Taidacent H56CH Digital Hall Coulomb Counting Battery Monitor with LCD display.

Key Features:

- Digital Hall Coulomb Counting for precise battery monitoring.
- LCD Display with backlight for clear readability.
- Supports Lead-acid and Lithium battery types.
- Voltage range: 9V to 100V.
- Current range: Up to 200A.
- Integrated Buzzer Alarm Function.
- Easy installation with buckle fixation.

2. SETUP AND INSTALLATION

2.1 Wiring Instructions

Important Safety Notice: Always follow the wiring diagram strictly. The coulomb counter must be connected to the **negative circuit** of the battery. It is strictly prohibited to connect it to the positive circuit.

1. Ensure all power sources are disconnected before beginning installation.
2. Connect the coulomb counter to the negative terminal of the battery.
3. All wires from the positive (or negative) terminal of the battery that carry current for measurement must pass through the sensor.
4. Verify the connection: When charging, the coulomb counter should display a positive current. When discharging, it should display a negative current. If the current direction is incorrect, the sensor is connected upside down and needs to be reversed.

2.2 Physical Installation

The device is designed for easy installation using a buckle fixation method.

1. Open a rectangular hole on the panel of your device or enclosure according to the specified dimensions (refer to the Specifications section for hole size).
2. Place the coulomb counter into the rectangular opening.
3. Press firmly until the buckles engage and secure the unit in place.

3. OPERATING INSTRUCTIONS

3.1 Automatic Mode (Recommended)

The automatic mode simplifies operation by automatically adjusting capacity readings after initial setup.

1. **Initial Current Check:** After wiring, if the coulomb counter displays a non-zero current under no-load conditions, the current needs to be cleared. Ensure no load is connected, then clear the current reading (specific method for clearing current is usually detailed in the device's menu, if available, or by a reset function).
2. **Battery Capacity Reset (First Use or Battery Replacement):** The initial capacity value displayed may not be accurate. To calibrate:
 - Fully discharge the battery until it is empty.
 - Press and hold the button (refer to device for specific button, typically a 'SET' or 'RESET' button) for 3 seconds. The capacity value and percentage will be cleared.
 - Begin charging the battery. The capacity will automatically display 100% once fully charged. This process is fully automatic.
3. **Manual Capacity Adjustment (Special Case):** If, after the battery is fully charged by the charger, the capacity does not display 100%, you can manually set it to 100% by pressing and holding the 'up' button. *Note: Do not unplug the charger during this manual adjustment.*

3.2 Buzzer Alarm Function

The integrated buzzer provides audible alerts for specific conditions, such as low voltage or overcurrent. Refer to the device's menu or settings for configuring alarm thresholds and conditions.

4. MAINTENANCE AND CARE

- **Environmental Conditions:** Do not expose the coulomb counter to direct sunlight for extended

periods. Avoid prolonged exposure to extreme temperatures outside the range of -10°C to +65°C.

- **Cleaning:** Use a soft, dry cloth to clean the display and casing. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.

5. TROUBLESHOOTING

- **Incorrect Current Reading (No Load):** If the coulomb counter displays a non-zero current when no load is connected, perform a current clearing operation under no-load conditions.
- **Capacity Not 100% After Full Charge:** If the battery is fully charged but the display does not show 100% capacity, manually adjust it by pressing and holding the 'up' button while the charger is still connected.
- **Incorrect Current Direction:** If the current displays negative during charging or positive during discharging, the sensor is connected in reverse. Disconnect power and reverse the sensor's connection.
- **No Display/Power:** Check all wiring connections to ensure they are secure and correctly connected to the battery's negative circuit. Verify the battery voltage is within the operating range (9V-100V).

6. SPECIFICATIONS

Parameter	Value
Product Model	H56CH
Working Voltage	9V ~ 100V
Current Range	200A (Specific model variant)
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	79mm * 43mm * 27mm
Hole Size	76.5mm * 39.5mm
Display Size	49mm * 24mm
Backlight Color	Green
Working Temperature	-10°C ~ +65°C
Lead Length	Standard 15CM

7. WARRANTY AND SUPPORT

For warranty information and technical support, please contact Taidacent directly or refer to the documentation provided at the time of purchase. Specific warranty terms may vary by region and retailer.

Manufacturer: Taida

Brand: Taidacent

For further assistance, please visit the official Taidacent website or contact their customer service department.