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> SUPNOVA Battery Monitor 12V-100V (Model 6133) User Manual

## SUPNOVA 6133

# SUPNOVA Battery Monitor 12V-100V (Model 6133) User Manual

Your guide to accurate battery monitoring.



## 1. INTRODUCTION

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The SUPNOVA Battery Monitor (Model 6133) is a versatile digital instrument designed to accurately display battery voltage, remaining capacity percentage, and temperature. It is compatible with a wide range of battery types and voltage configurations, making it suitable for various applications including electric motorcycles, golf carts, automotive systems, marine vessels, and RVs.

This monitor features a high-end chip for stable performance across its 7V-100V testing range. It includes a power-off memory function to retain settings and a buzzer alarm for low and high voltage alerts. The compact design ensures convenient integration into your system.



Image 1.1: The SUPNOVA Battery Monitor displaying current voltage and battery capacity percentage.

## 2. PRODUCT FEATURES

- **Wide Voltage Compatibility:** Supports 7V-100V systems, including 12V, 24V, 36V, 48V, 60V, 72V, and 84V batteries.
- **Multi-Battery Type Support:** Compatible with Ternary lithium, Lead-acid, AGM, and LiFePO4 batteries.
- **Comprehensive Display:** Shows voltage, remaining capacity percentage, and temperature (Celsius).
- **Buzzer Alarm:** Customizable low and high voltage alarm thresholds.
- **Power-off Memory:** Retains settings even after power disconnection.
- **Input Reverse Connection Protection:** Safeguards the device from incorrect wiring.
- **Certifications:** CE certified for quality and safety.

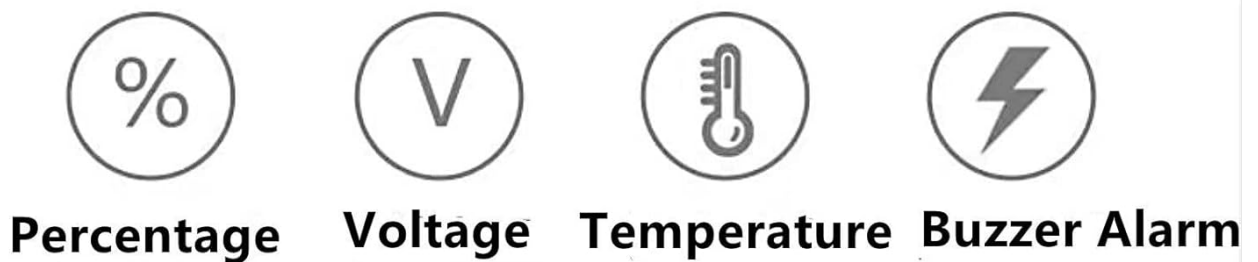


Image 2.1: Key features of the battery monitor, including percentage, voltage, temperature, and buzzer alarm capabilities.

### 3. SETUP AND INSTALLATION

#### 3.1 Wiring Instructions

Proper wiring is crucial for the correct operation of the battery monitor. The device comes with pre-attached wires for connection.

- Connect the **Red wire** to the **positive (+) terminal** of your battery.
- Connect the **Black wire** to the **negative (-) terminal** of your battery.

The length of the provided wires is approximately 39.37 inches (1 meter). Ensure secure connections to prevent intermittent readings or damage.

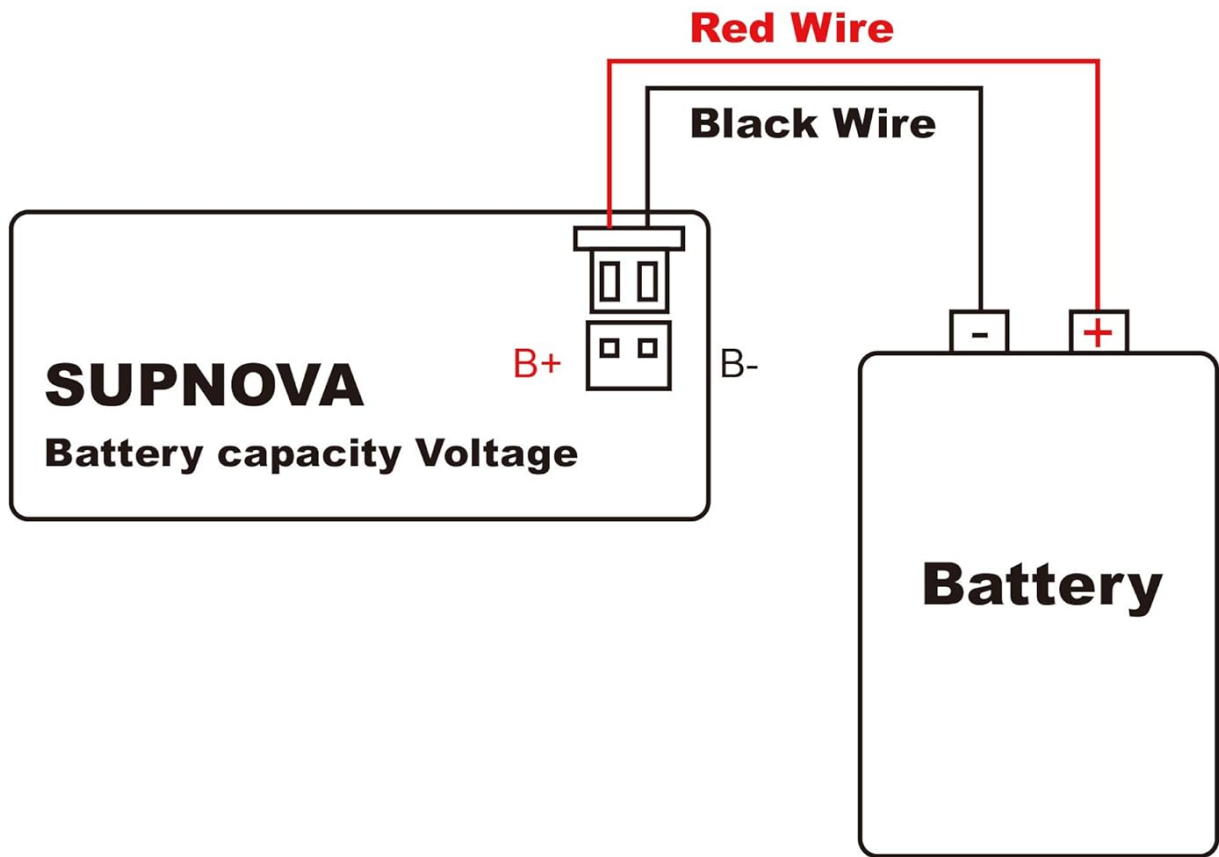


Image 3.1: Diagram illustrating the correct wiring connections for the SUPNOVA Battery Monitor to a battery.

### 3.2 Initial Configuration

Upon initial power-up or after installation, it is essential to perform a simple setting adjustment according to the instructions. Failure to do so may result in the percentage display consistently showing 100%, regardless of the actual battery capacity.

Refer to the 'Operating Instructions' section for detailed steps on configuring battery type and voltage parameters.



Image 3.2: Detailed view of the monitor's rear connector for wiring and overall construction.

## 4. OPERATING INSTRUCTIONS

### 4.1 Display Modes

The monitor typically displays voltage and battery capacity percentage. A short press of the 'M' key allows you to switch between displaying voltage and temperature (in Celsius).

### 4.2 Setting Battery Type and Voltage

To ensure accurate readings, configure the monitor for your specific battery type and voltage. The default setting is typically for a 12V lead-acid battery. The exact procedure for entering the settings menu and adjusting parameters will involve pressing and holding specific buttons (e.g., 'M' or power button) for a few seconds until the display changes to a setup mode. Follow the on-screen prompts to select:

- **Battery Type:** Ternary lithium, Lead-acid, AGM, or LiFePO4.
- **Battery Voltage:** The nominal voltage of your battery system (e.g., 12V, 24V, 48V).

The monitor features power-off memory, so your settings will be retained even if power is removed.

### 4.3 Buzzer Alarm Configuration

The monitor allows you to set custom low and high voltage buzzer alarms. When the battery voltage falls below the low threshold or exceeds the high threshold, the buzzer will sound to alert you. Consult the device's on-screen menu for specific steps to adjust these alarm values.

## 5. MAINTENANCE

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The SUPNOVA Battery Monitor is designed for durability and requires minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to clean the display and casing. Avoid abrasive cleaners or solvents.
- **Environment:** This device is not waterproof and is intended for indoor use or protected environments. Avoid exposure to moisture, extreme temperatures, or direct sunlight for prolonged periods.
- **Connections:** Periodically check wiring connections to ensure they remain secure and free from corrosion.

The monitor is designed not to generate excessive heat even during prolonged use at high voltages (under 100V).

## 6. TROUBLESHOOTING

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### 6.1 Percentage Always Displays 100%

This is a common issue if the initial configuration for battery type and voltage is not performed. Refer to Section 4.2 'Setting Battery Type and Voltage' to correctly set up your monitor. The device needs to know the battery's nominal voltage and chemistry to accurately calculate capacity.

### 6.2 Inaccurate Readings

- **Incorrect Settings:** Double-check that the battery type and voltage settings match your actual battery.
- **Loose Connections:** Ensure all wiring connections are tight and free from corrosion.
- **Voltage Drop Under Load:** It is normal for the displayed percentage to drop under heavy load and recover when the load is removed. This reflects the battery's actual behavior.

### 6.3 Device Not Responding / Bricked

The monitor may have a calibration menu (e.g., Menu 5) that should only be accessed and adjusted by qualified personnel or if specifically instructed. Entering incorrect values or confirming calibration with a non-standard voltage source can potentially render the device inoperable. Avoid making adjustments in calibration menus unless you are certain of the procedure and requirements.

If the device becomes unresponsive, disconnect power for a few minutes and then reconnect. If the issue persists, contact customer support.

### 6.4 Settings Not Visible After Re-entering Menu

Some menu interfaces may not display the currently saved settings when you re-enter them. It is advisable to document your chosen settings (battery type, voltage, alarm thresholds) after initial configuration for future reference.

## 7. SPECIFICATIONS

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<b>Feature</b>	<b>Specification</b>
Brand	SUPNOVA
Model Number	6133
Power Source	Battery Powered
Style	Digital
Minimum Operating Voltage	7 Volts
Maximum Operating Voltage	100 Volts
Measurement Type	Battery Tester, Voltmeter
Item Dimensions (L x W x H)	6.1 x 3.3 x 1.3 Centimeters (2.5 x 1.4 x 0.6 inches)
Item Weight	0.28 grams (0.01 Ounces)
Lower Temperature Rating	14 Degrees Fahrenheit (-10 Degrees Celsius)
Upper Temperature Rating	140 Degrees Fahrenheit (60 Degrees Celsius)
Certification	CE

## Dimension



Image 7.1: Physical dimensions of the SUPNOVA Battery Monitor.



Image 7.2: Examples of applications where the SUPNOVA Battery Monitor can be used.

## 8. WARRANTY AND SUPPORT

### 8.1 Warranty Information

Specific warranty details for the SUPNOVA Battery Monitor (Model 6133) are not provided in this manual. Please refer to your purchase documentation, retailer, or the manufacturer's official website for comprehensive warranty terms and conditions.

### 8.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or inquiries regarding product functionality, please contact the SUPNOVA customer support team or your product retailer. Ensure you have your product model number (6133) and purchase details available when seeking support.

