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diymore Standardmodell

diymore Battery Capacity Voltage Meter User Manual

Model: Standardmodell (AM03-GXQG0152-007) | Brand: diymore

1. Introduction

The diymore Battery Capacity Voltage Meter is a versatile instrument designed to measure battery capacity, voltage, and temperature. It is suitable for a wide range of applications, including various battery types such as lead-acid and lithium batteries, and can be used in diverse settings from automotive to DIY solar projects. This manual provides detailed instructions for the proper use, installation, and maintenance of your diymore Battery Capacity Voltage Meter. Please read this manual thoroughly before operation to ensure optimal performance and safety.

2. Key Features

- **Multi-functional:** Measures battery capacity, voltage, and temperature (switchable between °C and °F).
- **Protective Design:** Features a dust and waterproof surface with reverse input connection protection.
- **Integrated Temperature Sensor:** Measures temperature from -19 to 80 °C (-2.2 to 179 °F).
- **Configurable Modes:** Six programmable modes including battery type setting, delayed shutdown (10-120 seconds), adjustable battery percentage limits, undervoltage alarm, overtemperature alarm, and voltage calibration.
- **Wide Application:** Suitable for jet skis, golf carts, RVs, lawn mowers, aquariums, DIY solar generators, and more.



Figure 2.1: The diymore Battery Capacity Voltage Meter, showing its display and compact design.

3. Technical Specifications

Parameter	Value
Working Voltage	10-100V
Working Current Consumption	8-10mA
Delay Time (Adjustable)	10s, 20s, 30s, 60s, 120s
Standby Power Consumption	15-20uA
Voltage Accuracy	±0.1% - ±0.5%
Temperature Accuracy	±0.5℃ - ±1℃

Parameter	Value
Temperature Range	-19~80℃ (-2.2~179℉)
Working Temperature	-10~65℃
Product Size	61.5 x 33.5 x 13.5 mm
Installation Size	58.5 x 28.5 mm
Display Size	33 x 16.5 mm
Weight	30 g



Figure 3.1: Dimensions of the diymore Battery Capacity Voltage Meter, showing its compact size for integration.



Figure 3.2: Detailed technical parameters of the diymore Battery Capacity Voltage Meter.

4. Setup and Installation

4.1 Wiring Instructions

The product is designed for direct wiring. Ensure correct polarity during connection.

- Connect the **Red line** to the positive terminal of the battery.
- Connect the **Black line** to the negative terminal of the battery.
- If an external NTC temperature sensor is included (selective assembly), please connect it to the designated port. Do not squeeze the sensor.



Figure 4.1: Wiring diagram showing positive (red) and negative (black) connections to the battery.

4.2 Mounting

The meter is designed for flush mounting. It features a buckle for installation without the need for screws.

- Ensure the installation area is clean and dry.
- Carefully insert the meter into the prepared opening until the buckle engages securely.



Figure 4.2: Rear view of the meter, highlighting the power cord connection and the built-in temperature sensor location.

5. Operating Instructions

5.1 Basic Operation

1. Once powered, the instrument will display the battery percentage, voltage value, and analog battery symbols.
2. To turn on the instrument, press the button. In close mode, you can wake up the instrument by pressing any button. The product can go to sleep automatically after your selected delay time if this function is turned on.
3. The battery symbols on the display interface, from right to left, represent 7 display boxes showing the power pool from low to high.
4. The voltage on the display interface is measured in real time, and the voltage value is displayed on 10-100V without external power supply.
5. The percentage on the display interface is the percentage of the remaining battery power.
6. Fahrenheit and Celsius can be switched. The basic version shows product temperature, while the upgraded version shows ambient temperature.

7. When the battery is connected to the charger or discharging high current, the display parameters may fluctuate.



Figure 5.1: The meter's display showing battery percentage, voltage, and temperature readings.

5.2 Advanced Settings (SET Button)

The button behind the unit (SET) is used to configure various functions. Note that accessing this button requires the unit to be unmounted if already installed.

- **Change Battery Type:** Select between Lithium Battery (L), Lead Acid Battery (P), or LiFeCoPO4 Battery (F).
- **Setting Delay OFF/ON & Delay Time:** Adjust the automatic shutdown delay time (10-120 seconds).
- **Customize Voltage of Percentage 0 to 100:** Set the upper and lower limits for battery percentage display.
- **Recalibration:** Perform voltage calibration for accurate readings.
- **Enable Undervoltage Alarm and Threshold (Selective Assembly):** If enabled, the buzzer will ring at 1-second intervals with a flashing volt display when battery voltage is lower than the set threshold.
- **Enable Overtemperature Alarm (Selective Assembly):** If enabled, the buzzer will ring at 1-second intervals with a flashing volt display when battery temperature exceeds the set threshold.

- If the battery specification is special, you can enter set mode 3 and reset the upper and lower limits of the measured battery voltage.

IMPORTFEATURES:

- The patented product, neutral packaging production, with simple dustproof waterproof surface, with fullprotection cover.
- Integrated display port, anti puncture and sun protection, excellent touch experience with soft keys
- The color liquid crystal material, light clear display, Soft brightness at night
- To customize the type of battery, suitable for lead-acid, lithium-ion batteries, lithium iron phosphate, metal hydride battery.
- To display the percentage of remaining battery power,voltage, temperature value(Fahrenheit and Celsius can be switched)
- The 10~100V wide input voltage, reverse protection.
- The product can go to sleep oneself after your selected time.
- The low power red mark flashes to remind.
- The installation is simple, with a buckle, without screws.
- Low power activates buzzer alarm(Selective assembly).
- High temperature activates buzzer alarm (Selective assembly)
- Detection of the battery temperature (Selective assembly)
- Product can be altered according to requirements (Large order)



PARAMETER:

parameter	Min	Typical	Max	Unit	Figure
Product size				mm	61.5*33.5*13.5
Installation size				mm	58.5*28.5
Display size				mm	33*16.5
Weight	20	21	22	g	
Working voltage	10		100	V	
Power waste		8	10	mA	Backlight ON
Delay shutdown	10		120	S	10.20.30.60.120 (can be selected)
Sleep power		15	20	uA	20V
Voltage accuracy		±0.1	±0.5	%	

Figure 5.2: Overview of the four main configurable functions of the meter.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the display and casing. Do not use abrasive cleaners or solvents.
- **Environmental Conditions:** Avoid exposing the meter to extreme temperatures, direct sunlight, or high humidity for prolonged periods.
- **Disassembly:** Do not attempt to disassemble or modify the product. Contains electronic parts. Unauthorized disassembly voids warranty and may cause damage or injury.
- **Storage:** If storing the meter for an extended period, disconnect it from the power source and store it in a cool, dry place.

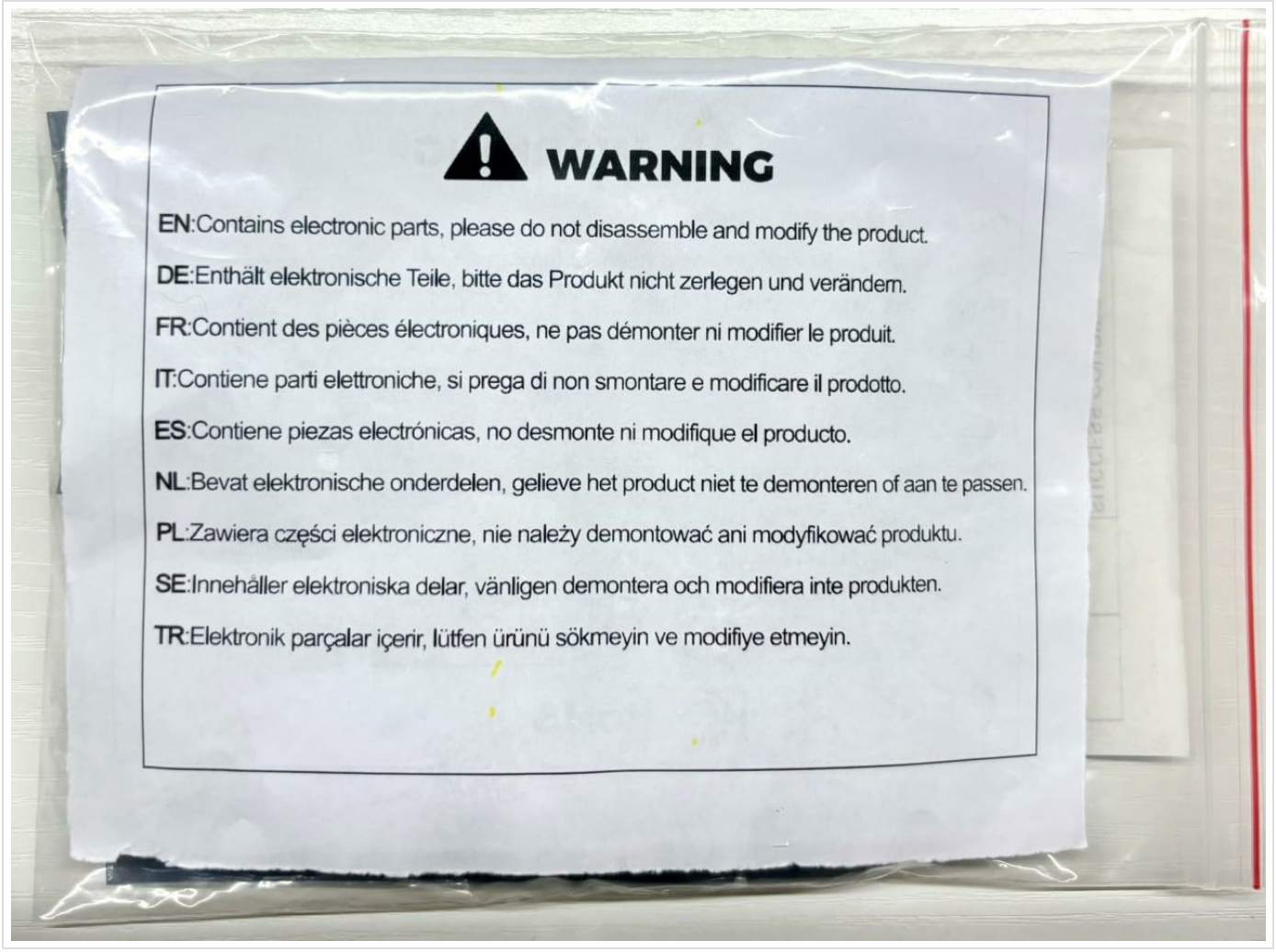


Figure 6.1: Important warning regarding product disassembly and modification.

7. Troubleshooting

Problem	Possible Cause	Solution
Display is blank	No power, incorrect wiring, or unit in sleep mode.	Check power connections and polarity. Press any button to wake the unit. Ensure battery voltage is within 10-100V range.
Inaccurate readings	Incorrect battery type setting, need for calibration, or high current discharge/charge.	Verify battery type setting using the SET button. Perform voltage recalibration. Readings may fluctuate during high current events; observe during stable conditions.
Buzzer alarm sounds	Undervoltage or overtemperature alarm triggered (if enabled).	Check battery voltage and temperature. Address the underlying issue (e.g., charge battery, cool environment). Adjust alarm thresholds if necessary via SET button.
Display parameters fluctuate	Battery is actively charging or discharging at high current.	This is normal behavior. Readings will stabilize once charging/discharging ceases or current draw is low.

8. Warranty Information

This diymore product is manufactured with high quality standards. For specific warranty terms and conditions, please refer to the purchase documentation or contact diymore customer support. Please note that unauthorized disassembly or

modification of the product will void the warranty.

9. Customer Support

For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact diymore customer service through the retailer where the product was purchased or visit the official diymore website.
You can also visit the diymore Store on Amazon for more information and products.

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