

INSTRUCTION MANUAL

Digital Battery Meter | Multi voltage level battery compatible



Remarks

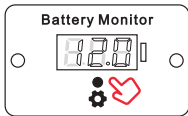
NO.1

1. Before use, make sure the device's voltage setting matches your battery's actual voltage. Incorrect voltage settings will result in inaccurate remaining-capacity readings.
2. If the voltage setting on the BM280 does not match the actual battery voltage, the device will not be damaged. The voltage reading will still display normally; however, the percentage may remain at 100% or 0%. If this occurs, adjust the voltage setting to the correct value. (Factory setting: 12V)
3. Ensure the C terminal is properly connected to the battery's positive terminal, either directly or through a key switch. Incorrect wiring of the C terminal will cause the device to malfunction and the display will not power on.

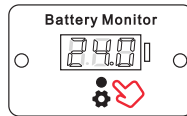
Setting the Nominal System Voltage (12V / 24V / 36V / 48V / 60V / 72V)

NO.2

Setting the correct nominal battery voltage before testing helps ensure the most accurate and reliable readings.



Step 1: Long-press 3s to enter settings, the screen flashes.



Step 2: Repeatedly press to select voltage. (12V-72V)



Step 3: Long-press 3s to stop flashing, setup done.

Alternative Auto-Save Method: If no button is pressed, the selected value (e.g., 24.0) will flash five times and then switch to a steady display. This confirms the setting is saved and the device returns to normal monitoring mode.

How to Switch Between Voltage & Percentage Display Modes

NO.3

While the device is in normal operation, press the Function Key briefly to switch between Voltage (V) and Capacity Percentage (%) display modes.

How to Identify the Current Display Mode



Green indicator ON: Voltage mode Display format: XX.X (e.g., 12.5 = 12.5 volts)



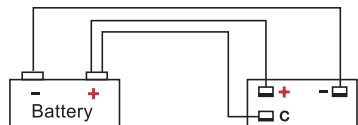
Red indicator ON: Percentage mode Display format: XX (e.g., 80 = 80% remaining battery)

Wiring Diagram

NO.4

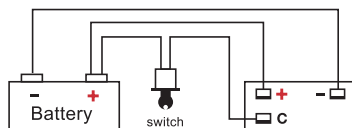
+/-/C Wiring Diagram (Without Key)

No Keys. The device will be always on when connected to the battery.



+/-/C Wiring Diagram (Keys)

Keys available.
Device can be controlled to turn ON/OFF.



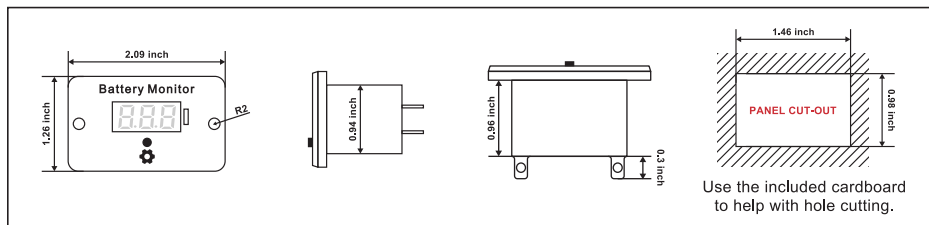
Specifications

NO.5

SOC Display Range	0-100%
Monitoring Voltage Range	5V to 80V
Operating Voltage	12V, 24V, 36V, 48V, 60V, 72V
Operating current	20 mA nominal
Storage and Operating	-20°C to + 85°C Temperature
Tolerance	+/- 0.5%
Polarity	Positive Negative / (C.R optional)
Waterproof level	Living waterproof

Product size

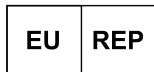
NO.6



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