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› [Runleader](#) /

› Runleader DC 12V to 48V LED Mini Battery Power Indicator User Manual

Runleader Runleader-*

Runleader DC 12V to 48V LED Mini Battery Power Indicator User Manual

Model: Runleader-* | Brand: Runleader

1. INTRODUCTION

The Runleader DC 12V to 48V LED Mini Battery Power Indicator is a versatile device designed to monitor battery charge levels for various battery types, including Lead Acid, LiFePO4, and 18650 lithium batteries. It provides clear visual indications of remaining battery power and includes a low battery reminder function to prevent over-discharge.

Key Features:

- Programmable for DC 12V to 48V Lead acid, LiFePO4, and 18650 lithium batteries.
- 5-bar LED display indicating 20% battery power increments.
- Low battery reminder with flashing and solid LED indicators.
- User-friendly one-button on/off operation.
- IP65 water resistance for enhanced durability.
- Easy screw-on installation.



Figure 1.1: Front view of the Runleader Mini Battery Power Indicator.

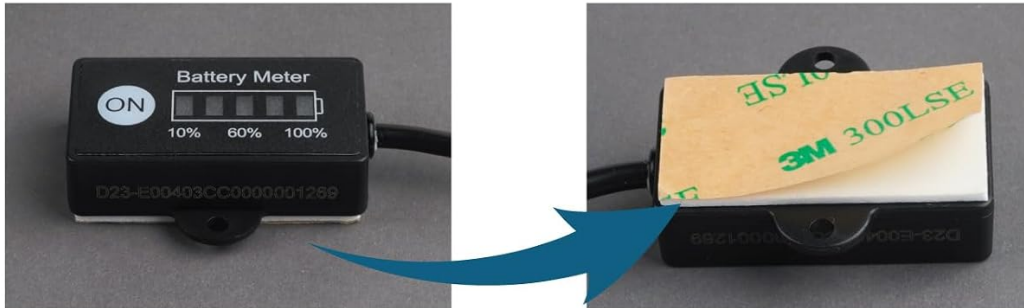
2. SETUP

2.1 Mounting the Indicator

The battery indicator can be mounted using two methods: stick-on or screw-on. Choose the method most suitable for your application.

PRODUCT MOUNTING

■ Stick-on mounting



■ Screw-on mounting

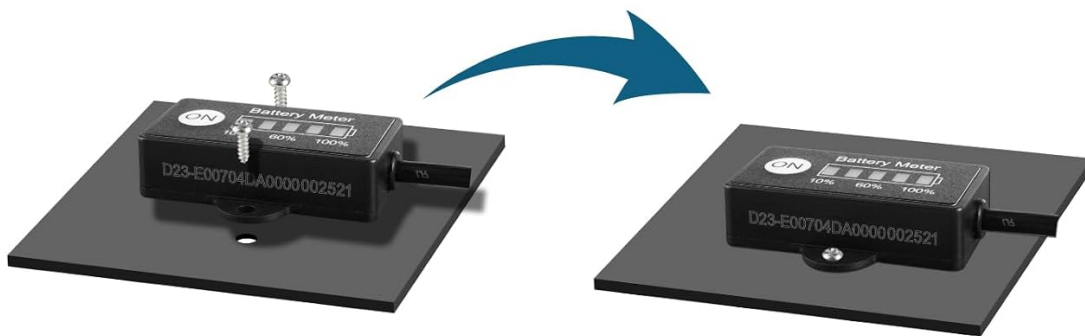


Figure 2.1: Illustration of stick-on and screw-on mounting options for the battery indicator.

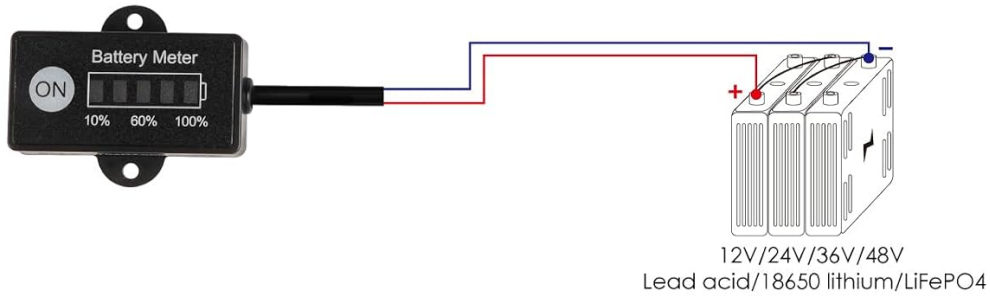
2.2 Power Connection

The indicator supports two types of power connections: direct power connection and key switch power connection. Ensure correct positive and negative polarity when connecting.

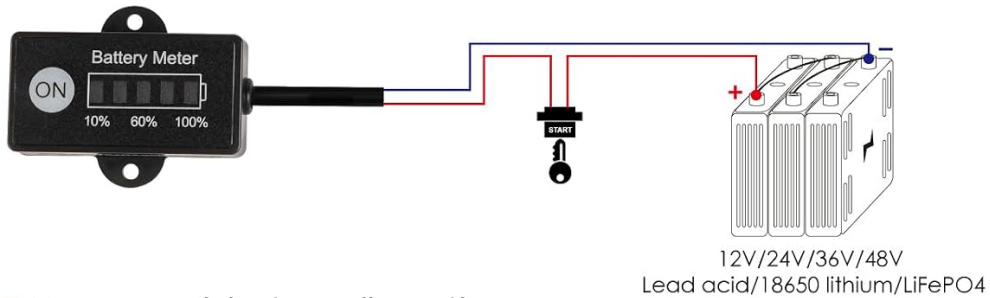
- **Direct Power Connection:** Connect the indicator directly to the battery terminals.
- **Key Switch Connection:** Connect the indicator through a key switch, allowing the indicator to turn on/off with the vehicle's ignition.

POWER CONNECTION

■ Direct connection



■ Key switch connection



■ Power cable type/length



Figure 2.2: Diagrams showing direct and key switch power connection methods.

3. OPERATING INSTRUCTIONS

3.1 Programmable Battery Types and Voltages

This battery capacity meter is compatible with DC 12V to 48V Lead acid, LiFePO4, and 18650 lithium batteries. You can program the required battery types and voltages through a simple one-button operation. For more specialized parameters like charge/discharge voltage and power display modes, an external programmer (PG600, sold separately) is required.

PROGRAMMABLE BATTERY TYPES & VOLTAGE

■ Applicable battery types

You can program the applicable battery types to Lead acid, 18650 lithium, LiFePO4.



Indicate Lead acid battery



Indicate 18650 lithium battery



Indicate LiFePO4 battery

■ Applicable battery voltages

You can program the applicable battery voltage to 12V, 24V, 36V, 48V



Indicate VOLT 12V



Indicate VOLT 24V



Indicate VOLT 36V



Indicate VOLT 48V



PG600 programmer



■ Programmed by PG600

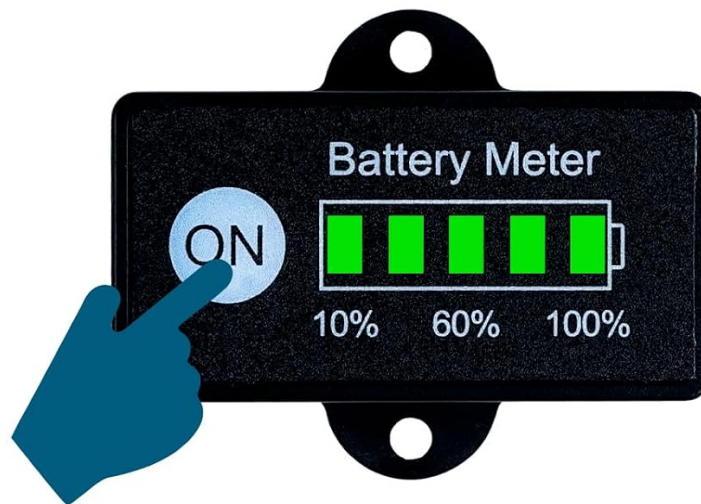
You can program another more specialized working parameters by PG600 (need to buy separately).

Figure 3.1: Overview of programmable battery types (Lead Acid, 18650 Lithium, LiFePO4) and voltages (12V, 24V, 36V, 48V).

3.2 LED Battery Level Display

The indicator features 5 green LED bars, each representing 20% of the battery's power. This visual display helps you quickly assess the remaining charge. The LED bars also provide feedback on the selected battery type and voltage during programming.

REAL-TIME BATTERY POWER DISPLAY



Press the button to turn on/off.

- It advise you how much battery power have left by 5 LED bars,each bars indicate 20% battery power.

Figure 3.2: The indicator showing real-time battery power display with 5 LED bars.

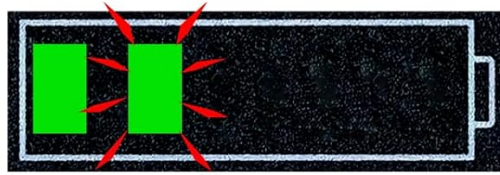
3.3 Low Battery Reminder

The device includes a low battery reminder system to alert you when charging is needed:

- When battery capacity is $\leq 10\%$, only 1 LED bar will remain lit.
- When battery capacity is $\leq 20\%$, 1 LED bar will flash to remind you.
- When battery capacity is $\leq 30\%$, 1 LED bar will be lit, and another will flash.

LOW BATTERY REMINDER

- Battery power $\leq 30\%$, Bar 1 lightening, bar 2 flashing to remind.



- Battery power $\leq 20\%$, Bar 1 lightening to remind.



- Battery power $\leq 10\%$, Bar 1 flashing to remind.

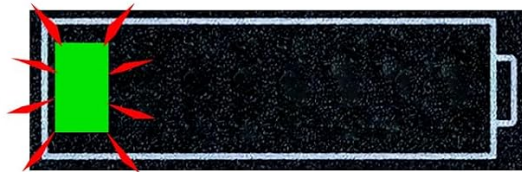


Figure 3.3: Visual representation of low battery reminder states.

3.4 User On/Off

The indicator can be turned on or off by pressing the 'ON' button on its face.

4. MAINTENANCE

The Runleader battery indicator is designed with IP65 water resistance, providing protection against dust and low-pressure water jets. While robust, regular cleaning with a soft, dry cloth is recommended to maintain optimal performance and visibility. Avoid using abrasive cleaners or solvents.

FAVORABLE WATER RESISTANCE



Figure 4.1: The indicator demonstrating its IP65 water resistance.

5. TROUBLESHOOTING

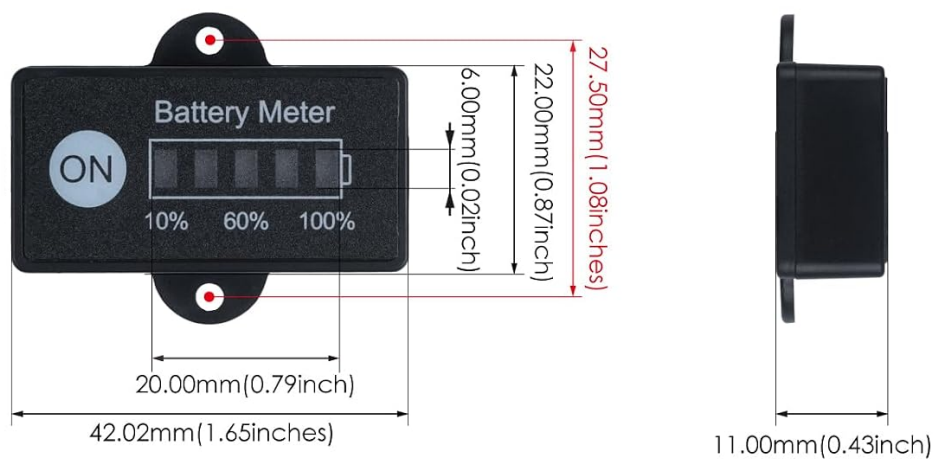
If the indicator is not functioning as expected, please check the following:

- Ensure the power connections are secure and correctly polarized (positive to positive, negative to negative).
- Verify that the battery type and voltage programmed into the indicator match your battery system.
- Confirm that the battery itself has sufficient charge to power the indicator.
- If issues persist, refer to the detailed troubleshooting section in the full user manual or contact customer support.

6. SPECIFICATIONS

DIMENSION & ACCESSORIES

Product dimension



Accessories



Figure 6.1: Product dimensions and included accessories.

Specification	Value
Package Dimensions	2.64 x 1.93 x 1.89 inches; 1.45 ounces
Item Model Number	Runleader-*
Date First Available	July 20, 2023
Manufacturer	Ningbo Jiangbei Run Leader Electronics Co., Ltd
Brand	Runleader
Power Source	Battery Powered
Style	Compact
Color	Black
Min. Operating Voltage	12 Volts (DC)

7. APPLICATIONS

The Runleader DC 12V/24V/36V/48V Battery Power Indicator is suitable for a wide range of battery-powered equipment, including but not limited to:

- Golf carts
- Forklifts
- Motorhomes
- Lawn mowers
- Leaf trimmers
- Scrubber machines

APPLICATIONS

It can be worked on DC 12V/24V/36V/48V Lead acid /18650 lithium/LiFePO4 battery powered equipments,such as:

- Golf cart
- Forklift
- Motorhome
- Lawn mower
- Leaf trimmer
- Scrubber machine etc



Figure 7.1: Visual examples of common applications for the battery indicator.

8. WARRANTY AND SUPPORT

Runleader provides excellent after-sales and technical support for this product, including a 2-year warranty. For any inquiries, technical assistance, or warranty claims, please contact Runleader customer service through the official

channels provided at the point of purchase or on the manufacturer's website.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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