

# SMART BATTERY MONITOR

**This device complies with part 15 of the FCC Rules.  
Operation is subject to the following two conditions:**

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

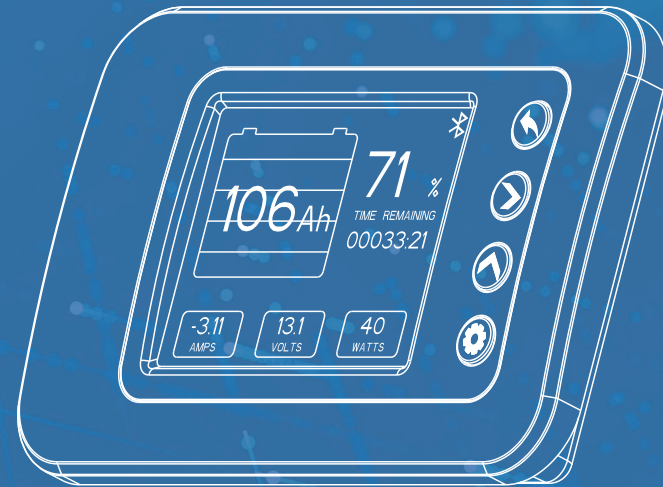
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

**which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:**

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.



# Model LI-BM500 ▶

For different types of batteries, different voltages, new and old batteries, in order to better and easier to understand the use of the battery state and remaining capacity information, we developed this advanced battery display. Combined with complex software algorithms, we collect and calculate the voltage and current of a battery and display it with simple numbers and icons . Compared with other similar products on the market, LI-BM500 has the following advantages :

## ● Easy to program

Clear display interface and operation interface, combined with four physical buttons, easily set capacity, maximum voltage, minimum voltage, capacity alert to meet different needs . Meanwhile, download the Android or IOS APP to do fast and easy settings .

## ● Easy to install

Clear installed diagram, clear at a glance. The installation card with the monitor makes the installation hole position simple and clear.

## ● Wireless, smart and simple

With the Bluetooth connection, to monitor the battery information on Android or IOS APP .



## ● Features

- Suitable a wide variety of battery systems
- Battery capacity, capacity percentage, voltage, current, power, time remaining
- Two screen interface, four buttons, easy to operate
- Simple installation
- Programmable alarm, high volt alarm, low volt alarm & low capacity alarm
- 500Amps quick connect shunt with PCB
- Wide voltage range: 10V – 120V, wide capacity range: 10 – 1000.0Ah
- Color LCD display, clear at a glance
- Advanced APP, download from Apple store or Google store
- One-button clear battery capacity calibration; one-button make battery capacity full calibration

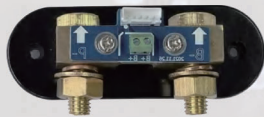
## ● Applications

- Solar power systems
- Off-grid power systems
- Commercial vehicles
- Marine applications
- Industrial power supply
- Camper/utility vans

## Identification of Parts



LCD display



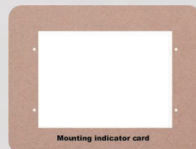
500A shunt



6m shielded wire

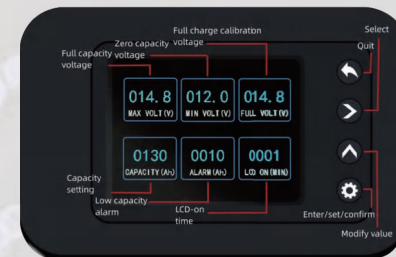
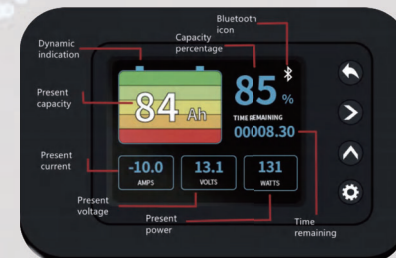


6m B+ wire

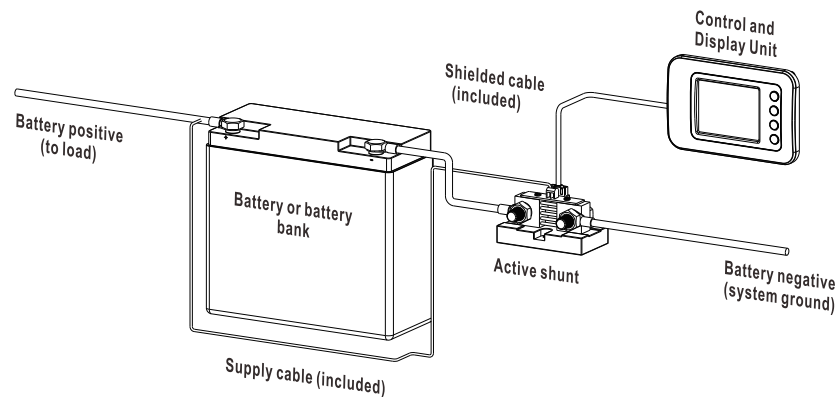


Mounting indicator card

## Display information



## Wiring diagram



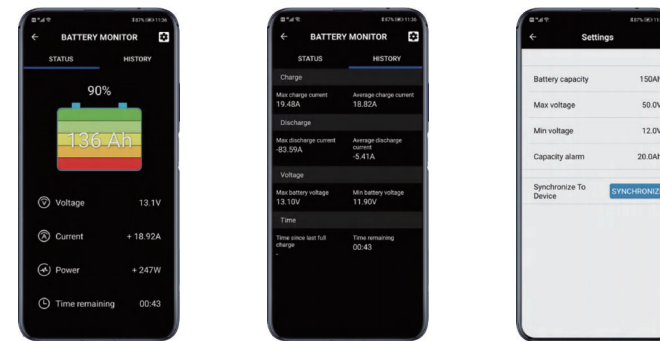
## Specifications

Parameter	LI-BM500
Supply voltage range	10 - 120 VDC
Battery capacity range	10 - 1000.0 Ah
Max measured current	500 A
Power consumption	≤ 1 W
Voltage accuracy	±1 %
Current accuracy	±1 %
Capacity accuracy	±1 %
Temperature range	-20°C - +50°C
Communication	Bluetooth, RS485
Weight (LCD screen)	125*82*21 mm
Dimension (LCD screen)	110 g
Protection class	IP20
Standards	EN 62368-1:2014+A11:2017 EN 50663:2017 ETSI EN 301 489-1 V2.2.3(2019-11) ETSI EN 301 489-17 V3.2.4(2020-09) ETST EN 300 328 V2.2.2(2019-07)

## Operation

- During the screensaver, press any button to light up LCD screen, and it's main screen, showing battery capacity, capacity percentage, voltage, current, power, time remaining
- In the main screen, press button to enter setting screen.
  - In the setting screen, press button to back to main screen;
  - In the setting screen, press button again to do setting. The selected items will turn red and flicker;
  - In the setting screen, press button to choose items, press button to modify its data;
  - In the setting screen, after modify data, please press button to save all modification, and then back to main screen;
  - Note: in the setting screen, press button back to main screen directly, all modified data won't be saved.
- In the main screen, long press to clear battery capacity calibration.
- In the main screen, long press to make battery capacity full calibration.
- "Full charge calibration voltage", during charging, the voltage reaches preset value, battery capacity and percentage are both full(100%).
- "LCD-on time", default time is "0001" (1 minute); Setting "9999" means LCD is always on.

## Smart Monitor with Bluetooth



## Download our free APP for Android and IOS



Android



iOS