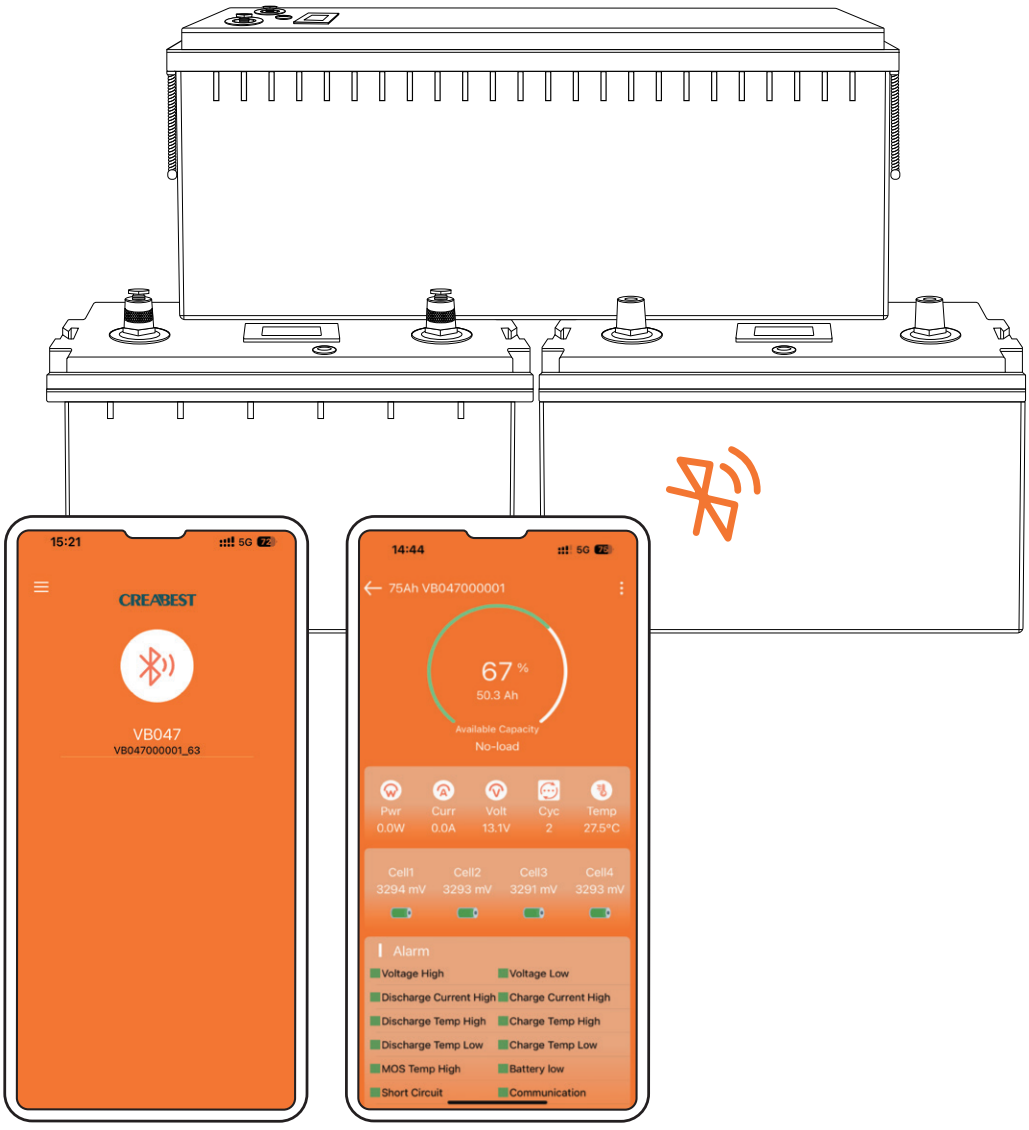
CREABEST

Bluetooth APP User Manual



Version:06.06.2025

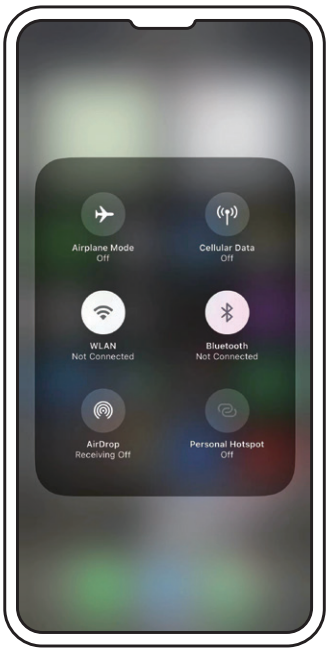
Contents

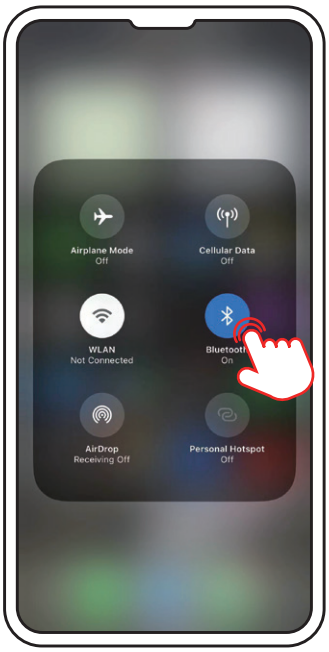
Introduction

- CREABEST APP connects to the battery via Bluetooth, monitors the battery status, and collects and processes information in real time; it can ensure the safety of the lithium battery system and improve the stability of the battery.

1. Download and Connect

- Please activate the smartphone's Bluetooth





- Please download the Bluetooth APP "CREABEST" from Apple Store or Google Play or scan the following QR code to download it.

GET IT ON Google Play

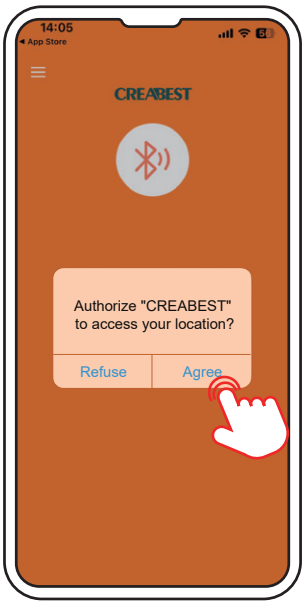
CREABEST

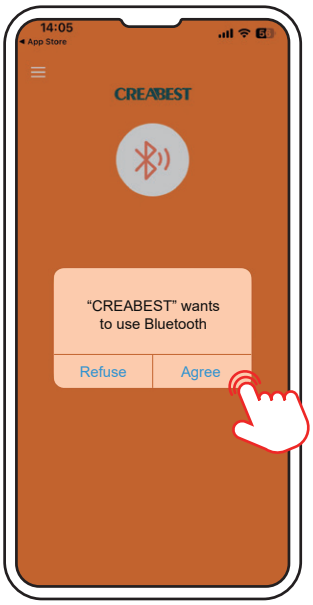
Available on the App Store

CREABEST

- Please open the CREABEST App and click "Agree" when the app asks for location and Bluetooth authorization.

Note:Mobile phones with Android 12 and above systems and IOS systems can directly connect to battery Bluetooth without turning on location authorization).

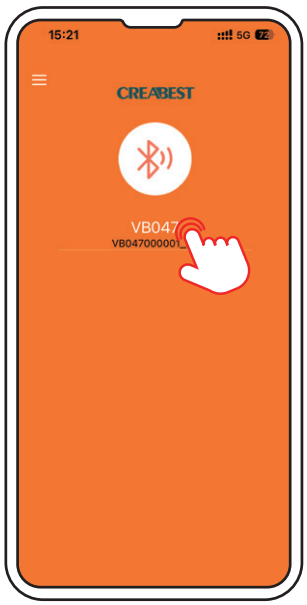




⚠ Attention!
The battery is only connected via the "CREABEST" app, not directly via the smartphone's Bluetooth.

1.1 Connection

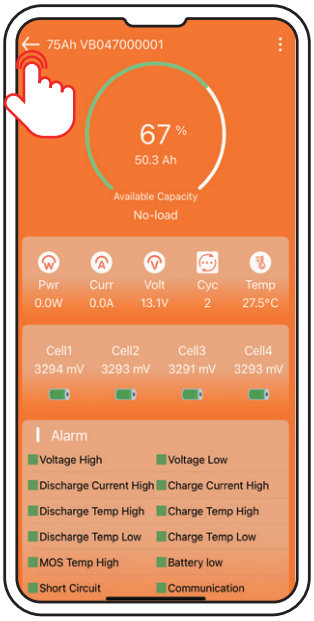
- Enter the battery APP and you can see a list of available batteries nearby.



- Each battery has a corresponding serial number: the last 4 digits of the barcode posted on the battery surface correspond to the last 4 digits of the Bluetooth.
- Please select your battery now; then click on the corresponding battery serial number, it will connect the battery and then enter the battery data page.

1.2 Disconnect

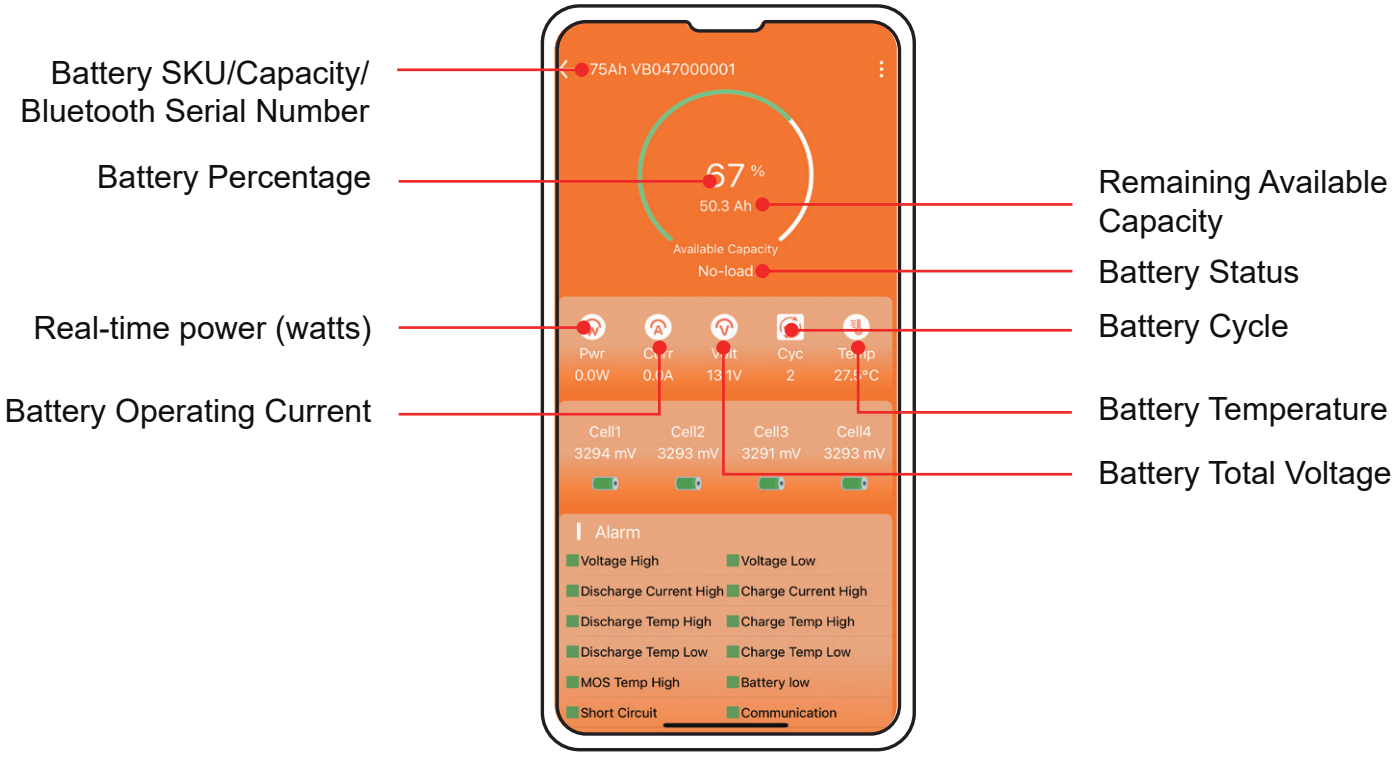
- Click the return button in the upper left ; return to the previous level to disconnect the current battery.



2. Introduction to APP and its functions

2.1 Display battery parameter values

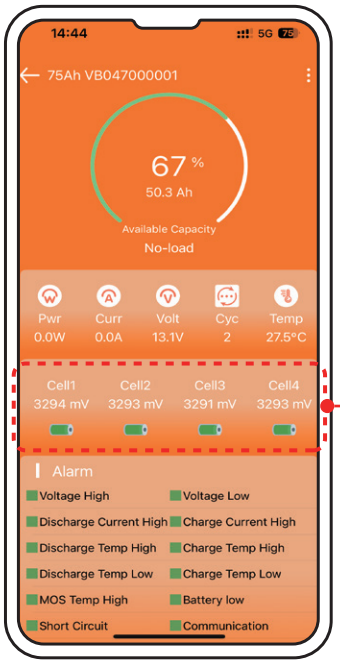
- Real-time display of parameter values such as battery percentage, total voltage, current, number of cycles, temperature in digital form.



2.2 Voltage value of each cells

- Check the real-time voltage information of each cells string.
- Example: A 12V battery consists of four strings of cells connected in series. The APP will display the voltage of the four strings of cells.

Note: The built-in active equalizer of the battery will balance the voltage of each string of cells to a stable difference.



Real-time voltage of each cells

2.3 Alarm status display

- This page displays the real-time alarm status of the battery. If the battery parameters reach the protection value, the system will protect the battery and alarm.

Alarm status display area

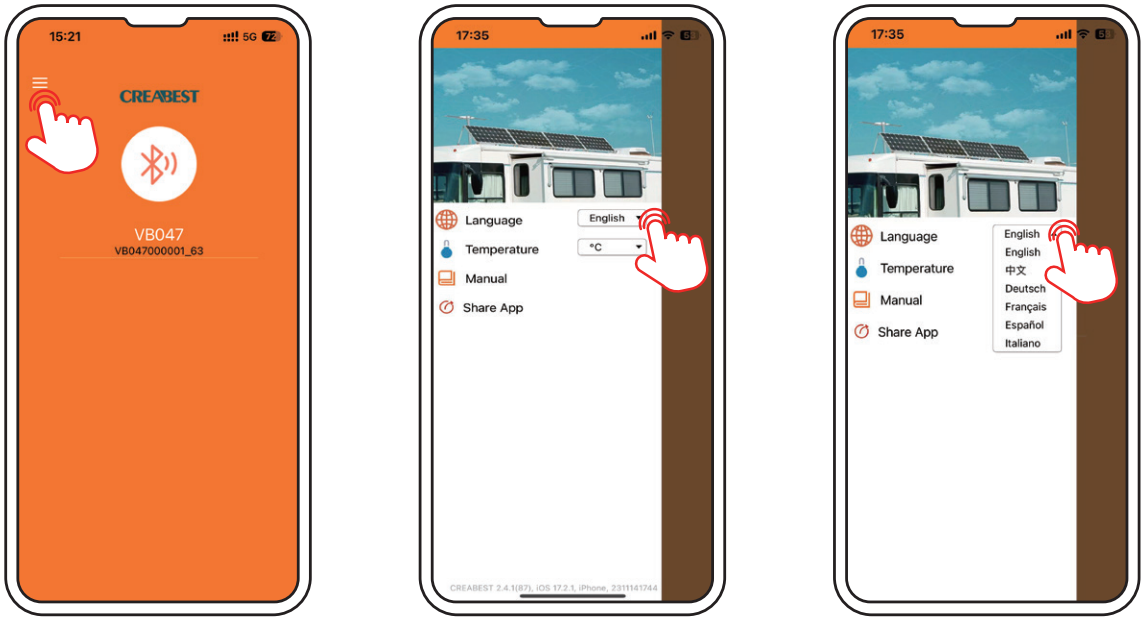
The meaning of each alarm is as follows：

Alarm	The meaning of green	The meaning of red
Volt High	Normal	Voltage is too high
Discharge Current High	Normal	Discharge Current is too large
Discharge Temp High	Normal	Discharge Temperature is too high
Discharge Temp Low	Normal	Discharge Temperature is too low
MOS State Discharge	Normal	The discharge state of the MOS board reaches the voltage protection value, the battery is and stops discharging (the total voltage is lower than 10.6V or a single battery cell is lower than 2.65V)
MOS Temp High	Normal	MOS Board Temperature is too high
Short Circuit	Normal	System short circuit (battery positive and negative polarity reversed)
Voltage Low	Normal	Voltage is too low
Charge Current High	Normal	Charging Current is too large
Charge Temp High	Normal	Charging Temperature is too high
Charge Temp Low	Normal	Charging Temperature is too low
MOS State Charge	Normal	The charging state of the MOS board reaches the voltage protection value, the battery is protected and charging stops (the total voltage reaches 14.2V or a single battery cell reaches 3.65V at a certain moment) At this time, the battery display will show the error code "err110"
Battery Low	Normal	SOC battery percentage is too low (less than 19%)
Communication	Normal	Abnormal port connection (this warning is only suitable for testing by battery developers)

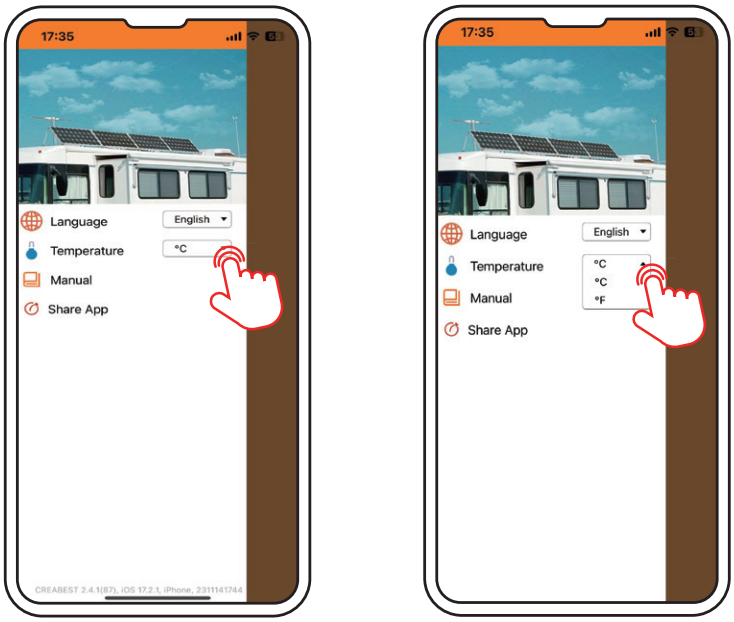
2.4 Other functional options

Clickto enter other function selection pages.

- Click the language to switch to other languages;



- Click the temperature unit to select the units ℃ and ℉



2.5 Firmware Upgrade and Battery Motherboard Version

- For the new version of CREABEST batteries, the BMS firmware can be updated online via the APP.

This BMS update function is only used in the following cases:
When the current generated by your discharge device (such as an inverter) at instant startup exceeds the original BMS short-circuit protection current of the battery, causing the BMS to shut down the battery.
After the BMS update, the short-circuit protection current of the BMS will increase.
But if the battery can work normally with the device you are connected to, you do not need to update it through the APP. Because the increase in the battery BMS short-circuit protection current also means that the battery short-circuit protection function is slightly weakened.
If you are sure you want to update the BMS, we will send you a firmware program, and then you save it to your phone. Then you click the settings icon in the APP data page to enter the upgrade page, and then upload the firmware file and click Update.

- Battery motherboard (including BMS) version and parameter value

Warm reminder: This parameter value does not support customers to change it by themselves. It is mainly for after-sales personnel to confirm the motherboard version used by the battery when the battery fails, so as to better repair the battery.