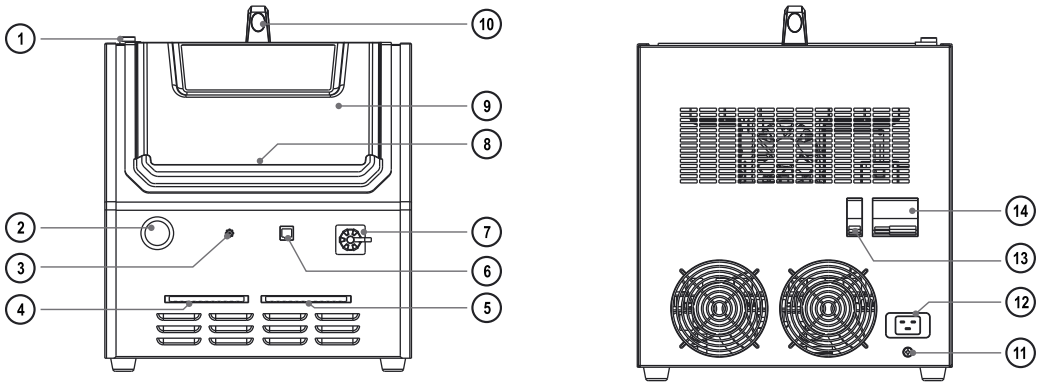
Statement: This document provides a quick guide to basic device operations and troubleshooting. All pictures in this document are for reference only, the real product should prevail. We reserve the right to modify this Quick Reference Guide.

Product Introduction

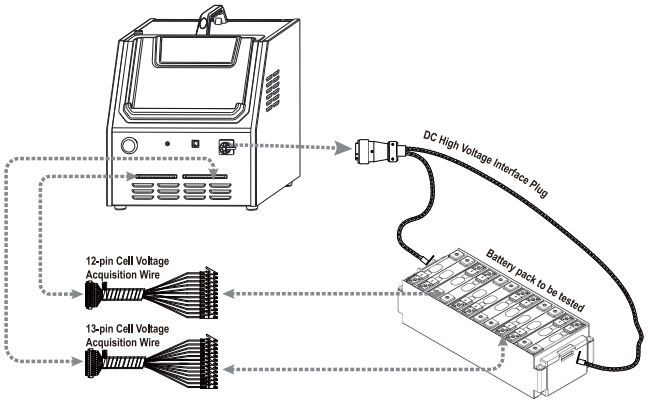
The CE39, developed by Smartsafe, is a new energy maintenance device that combines battery module balancing, charging and discharging. This device is suitable for testing and maintaining various types of battery packs, including power and energy storage batteries. The device supports independent balancing control for each connected cell, enabling precise adjustment of each cell to a uniform voltage level based on the user's specified voltage target. Additionally, it offers the capability for rapid high-current charging and discharging at the terminal, efficiently adjusting the overall voltage of the battery pack to the desired state. CE39 should be used with a detection tablet. With the accompanying app on this detection tablet, users can remotely monitor, check battery status, and export diagnostic reports, effectively enhancing operational convenience and maintenance efficiency.

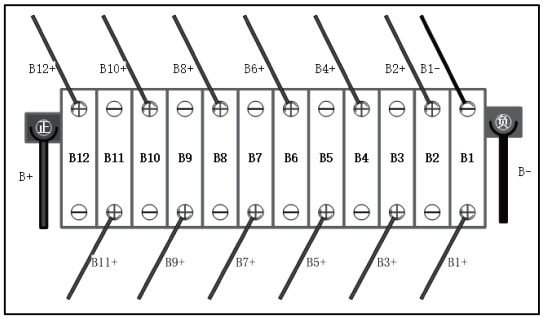
Device Interfaces and Controls



① Power indicator
② Emergency stop switch
③ Buzzer hole
④ Channel 2
⑤ Channel 1
⑥ Communication interface
⑦ DC output port
⑧ Charging contacts
⑨ Detection tablet storage slot
⑩ Handle
⑪ Grounding terminal
⑫ Power outlet
⑬ DC switch
⑭ AC switch

Device Connection





1 High voltage plugs are connected to the positive and negative battery terminals

Plug the DC high voltage interface plug into the **"DC output port"** of the device, and connect the other end to the positive and negative terminals of the battery module to ensure that the polarity is correct.

2 Voltage acquisition cable is connected to the battery cell

Plug the male connector of the voltage acquisition cable into the front interface of the device, and connect the other end to the corresponding battery cells one by one according to the numbers on the voltage acquisition cable.

- If the number of cells to be measured does not exceed 12: Connect the channel 1 interface of the device with a 13-pin voltage acquisition cable;
- If the number of cells to be measured exceeds 12: Connect more cells to the channel 2 interface of the device with a 12-pin voltage acquisition cable (up to 24 cells supported).

3 Startup power

Once the previous wiring step is completed, connect the power cord to the power port on the back of the device and ensure that the input voltage matches. Turn on the AC switch and DC switch, and start the operation process when the indicator light on top of the device turns green.

Statement: This document provides a quick guide to basic device operations and troubleshooting. All pictures in this document are for reference only, the real product should prevail. We reserve the right to modify this Quick Reference Guide.

APP Use

This APP provides two entry buttons corresponding to its functions: **"Module Balancing"** and **"Module Dis/Charge"**.

- When you enter the APP from the **"Module Balancing"** portal, the default operating mode is balancing.
- When you enter the APP from the **"Module Dis/Charge"** portal, the default operating mode is charge/discharge.

1 APP start

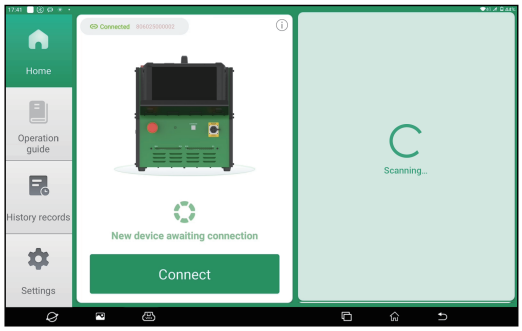
On the home page of the detection tablet, click either the **"Module Balancing"** or **"Module Dis/Charge"** button to start the corresponding APP.

Note: Functional modules may differ across detection tablets. The images below are for illustrative purposes only. Please refer to the actual detection tablet for details on specific functional modules.



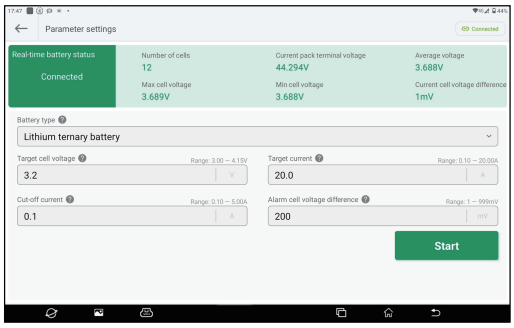
2 Device connection

After the detection tablet searches the CE39, select the corresponding device on the home page and click the **"Connect"** button.



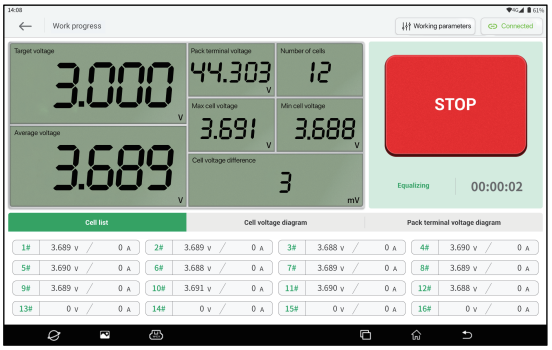
3 Set the operating parameters

After connecting the battery module, appropriate operating parameters can be set according to the battery type, combined with data such as real-time battery voltage.



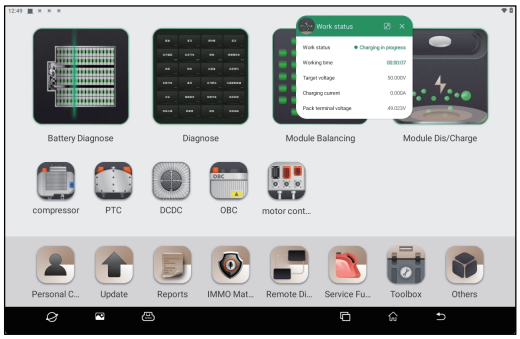
4 Start work

Click the **"Start"** button to save the current settings and enter the operating status.



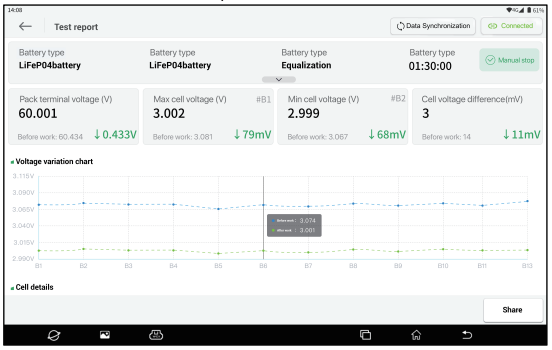
5 Check the operating status through the floating window

Switch APP, the floating window will be displayed automatically, which facilitates to check the operating status at any time.



6 Test report

Upon the completion of the test, click on the report to view the detailed data, and share the test report.



Common Issues

1. What should you do if the CE39 cannot be searched?

Answer: First, check that the CE39 is powered on and that the green light at the top is ON. Check that Bluetooth of the detection tablet is turned on, and keep it close to CE39 to reduce possible Bluetooth signal obstruction.

2. Will it stop functioning when Bluetooth is disconnected?

Answer: A Bluetooth disconnection will not affect the normal operation of the device, and the user can still use the detection tablet for other tasks.

3. How to handle an abnormal shutdown?

Answer: The system features comprehensive safety mechanisms that automatically shut down when faults or potential hazards are detected, ensuring the safety of both the device and its users. Users can resume work after troubleshooting the issue based on the prompts.

4. How to activate the floating window function?

Answer: After starting the task, if the users switch to other APPs, the floating window will automatically appear, enabling them to quickly monitor the work progress while using other applications.