

Capative Active Balancer
With display
Product Datasheet

Specifications

Applicable Battery Pack	Li-ion / Lifepo4
string count	4S / 8S
Main Board Working Mode	Energy transfer type + intelligent management
Balance Activation Voltage	Average voltage ≥ 3.28 V(0.1 V higher than cut-off voltage, max adjustable up to 4.2 V)
Balance Activation Voltage Difference	30 mV (adjustable: 8 mV – 80 mV)
Balance Shutdown Voltage	Average voltage ≤ 3.15 V(minimum 2.5 V, adjustable, 0.1 V lower than activation voltage)
Balance Shutdown Voltage Difference	15 mV (adjustable: 6 mV – 60 mV)
Dynamic Scanning Interval (Working Mode)	30 seconds
Dynamic Scanning Interval (Standby Mode)	60 seconds
Abnormal Alarm	Buzzer alarm for cell failure or wiring error
Display Type	OLED screen display
Working Environment	-25°C ~ 75°C, 20% – 80% RH

Application Scope

Battery maintenance for energy storage power supplies and starter batteries

Built-in installation for various 12V / 24V battery pack assemblies

Operation Instructions

Slide the toggle switch to the ON position (8S version has no switch). The buzzer will emit a startup beep, and the OLED screen will light up normally. The device automatically detects the battery type.

After detection is completed, the battery type will flash every 0.5 seconds. Press the key manually to confirm whether the recognized battery type is correct. If no operation is performed within 30 seconds, the system will confirm automatically.

If the battery voltage difference is stable within the activation threshold, or the activation voltage is not reached, the unit will exit balance mode and enter sleep mode within a few seconds to reduce power consumption.

When the balance conditions are met, the equalizer works continuously until all cell voltages are balanced and the voltage difference drops below the shutdown threshold. It then switches to low - power standby mode.

The whole process adopts intelligent unattended management to realize automatic balancing of each cell.

Boot-up Info, Display Name & Version

主动式均衡器
Active Balance-B

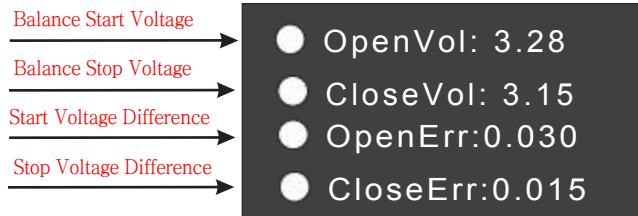
V2.1

Fault

Alarm If a connection break is detected during initial wiring, the buzzer will emit a "two short, one long" beep sequence, and the OLED screen will show the corresponding error prompt.

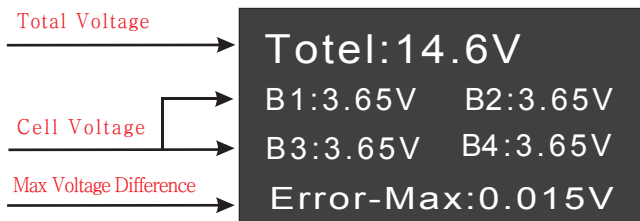


Setting Information

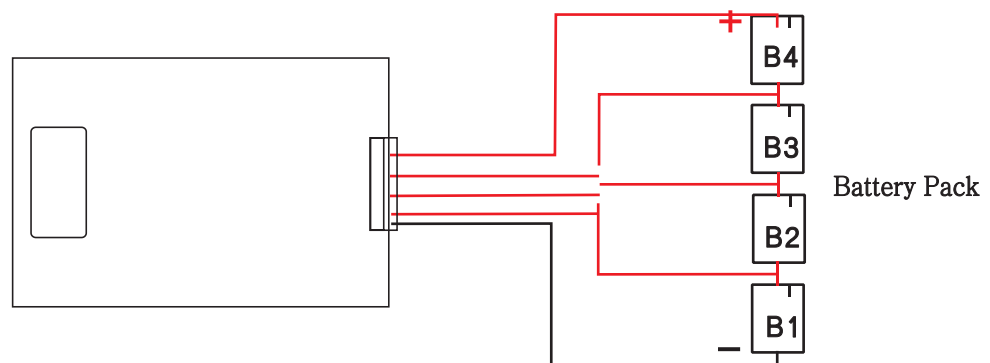


Press and hold the key for 2 seconds to open the settings menu.
Double click to select different options. Single press to change the data value.
Hold the key for 2 seconds to turn on fast value increasing.
Press once to stop fast change when you get the number you need.
If no key is pressed for 3 seconds, all settings will save automatically and exit the menu.

Display Data



Wiring Diagram



Notes

Please connect the wire harness strictly in correct positive and negative polarity. Reverse connection will cause permanent damage to the device.
Keep conductive liquid and metal objects away from the product to avoid short circuit.
Use and store the product in a dry and well - ventilated environment.