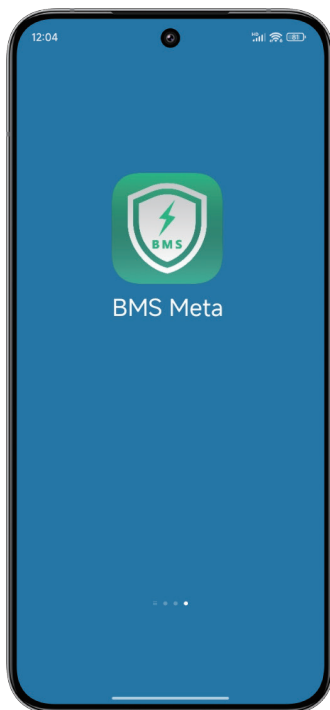


Bluetooth APP User Manual

Bluetooth communication: you can connect Bluetooth through the mobile phone APP to monitor various information of the battery

ENGLISH VERSION



Compatible batteries

Models: SR-B5BT, SR-B10BT, SR-B14BT
and SR-BxBTE series



Scan the code to download the Bluetooth APP software

Step 1 Download and installation of the Bluetooth APP “BMS meta”.

Download Bluetooth APP “BMS meta”

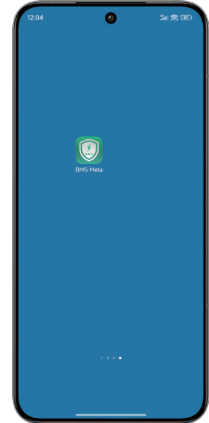
- ① Apple phone: search “BMS Meta” on apple app store.
Android phone: search “BMS Meta” on google play store.
- ② Store or scan the QR code in **Pic1** **Pic2** to download and install.



For iOS devices
Pic1



For Android devices
Pic2



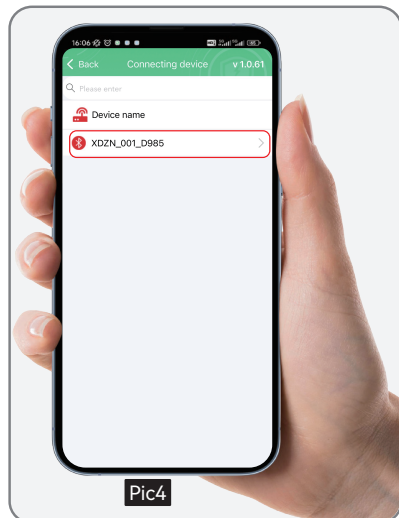
Install the downloaded Bluetooth app “BMS meta” on your phone.

Step 2 How to use the Bluetooth APP “BMS meta”

Open the Bluetooth APP “BMS meta”, select the corresponding Bluetooth device name (as shown in **Pic3** **Pic4**) and enter.



Pic3

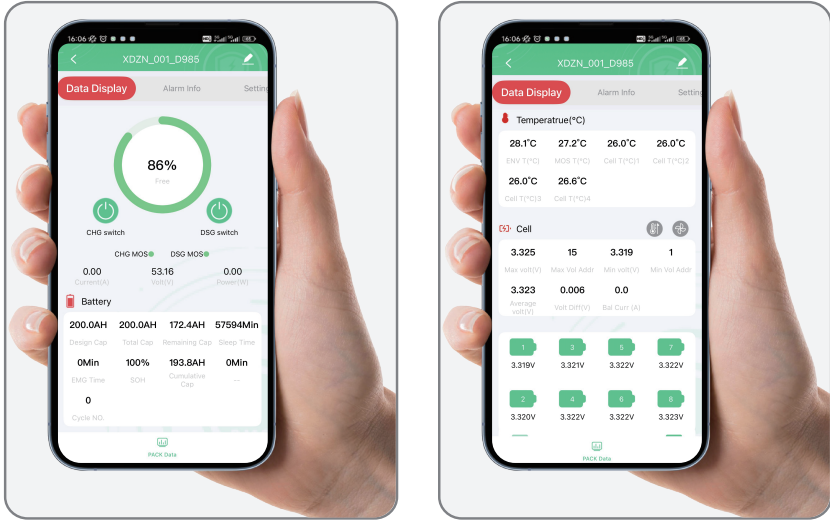


Pic4

Please read these instructions carefully for usage and keep it in a safe place

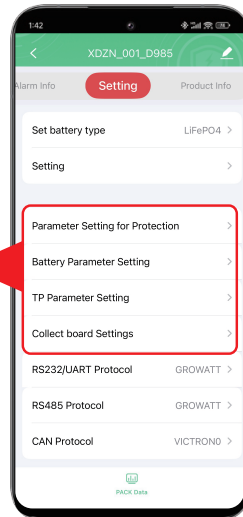
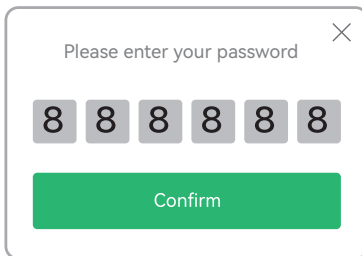


Step 3 Check the battery pack information on “BMS meta” App.



Step 4 When you set the paremeters, please enter the password“888888”.

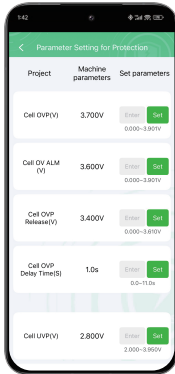
Factory default password: 888888



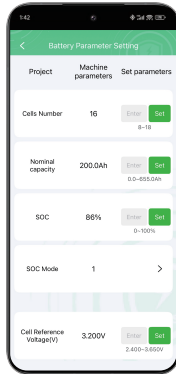
Please read these instructions carefully for usage and keep it in a safe place



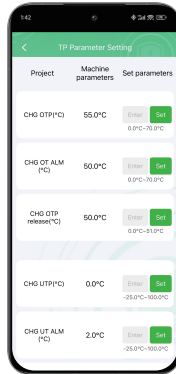
Parameter setting range: Below the parameter input box, there is a prompt indicating the limit of the parameter input range. When users need to modify parameters, they should refer to the battery cell specifications and the parameter input range.



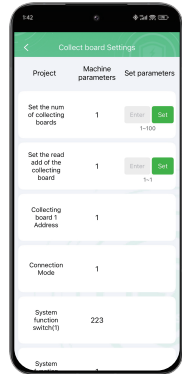
Parameter Setting for Protection



Battery Parameter Setting



TP Parameter Setting



Collect board Settings

Temperature Protection and Recovery

1.1. High temperature protection and recovery in charging and discharging

When the NTC detects that the temperature of the battery cell surface is higher than the setting of high temperature protection value during charging and discharging, the management system enters the high temperature protection state, the charging or discharging MOSFET is turned off, and the battery pack cannot be charged or discharged in this state.

When the temperature of the surface of the cell drops to the high temperature recovery set value, the management system recovers from the high temperature state and turns on the charge and discharge MOS again.

1.2. Low temperature protection and recovery in charging and discharging

When the NTC detects that the temperature of the cell surface is lower than the setting of low temperature protection value during charging and discharging, the management system enters the low temperature protection state, the charging or discharging MOSFET is turned off, and the battery pack cannot be charged or discharged in this state.

When the temperature of the cell surface rises to the low temperature recovery set value, the management system recovers from the low temperature state and turns on the charge and discharge MOS again.

Please read these instructions carefully for usage and keep it in a safe place



• “Parameter setting for Protection” Function Description.

1. Overcharge protection and recovery

1.1. Cell overcharge protection and recovery

When the voltage of any cell is higher than the set value of the cell overcharge voltage, and the time of duration reaches the cell overcharge delay, the system enters the overcharge protection state, the charging MOS will turn off, and the battery cannot be charged. After the cell overcharge protection, when the voltage of all cells drops below the cell overcharge recovery value, the overcharge protection state is released. It can also be released by discharge.

1.2. Overall overcharge protection and recovery

When the overall voltage is higher than the overall over-voltage set value, and the time of duration reaches the overall overcharge delay, the system enters the overcharge protection state, turns off the charging MOS, and cannot charge the battery.

When the overall voltage drops below the recovery value of the overall voltage over-voltage protection, the overcharge protection state is released, and it can also be released by discharge.

2. Over-discharge protection and recovery

2.1. Cell over-discharge protection and recovery

When the minimum cell voltage is lower than the set value of the over-discharge voltage of the cell, and the time of duration reaches the over-discharge delay of the cell, the system enters the over-discharge protection state, turns off the discharge MOS, and cannot discharge the battery. After the cell over-discharge protection occurs, charging the battery pack can release the over-discharge protection state.

2.2. Overall over-discharge protection and recovery

When the overall voltage is lower than the overall over-discharge voltage set value, and the time of duration reaches the overall over-discharge delay, the system enters the over-discharge protection state, turns off the discharge MOS, and cannot discharge the battery. After the overall over-discharge protection occurs, charging the battery pack can release the over-discharge protection state.

3. Over-current protection and recovery in charging

When the charging current exceeds the charging protection current and the time of duration reaches the over-current detection delay time, the system enters the charging over-current protection state and cannot charge the battery. After the charging over-current protection occurs, it will automatically recover after a delay. If you want to automatically recover or not, you can set the corresponding release time to be longer; the charging over-current state can also be released by discharging.

4. Over-current protection and recovery in discharging

When the discharge current exceeds the discharge over-current protection current and the time of duration reaches the over-current detection delay time, the system enters the discharge over-current protection state and turns off the discharge MOS. Delayed automatic recovery after discharge over-current occurs, and the corresponding release time can be set longer if automatic recovery is required. Charging can also release the discharge over-current protect condition.

Discharge has two-level over-current protection function, which has different response speeds for different current values, and protects the battery more reliably.

Please read these instructions carefully for usage and keep it in a safe place