Contents

I. Download and installation of the "HaiDi Pro"Bluetooth APP

1.1 Open the Google Play Store on your phone, search for "HaiDi Pro", and then download it.

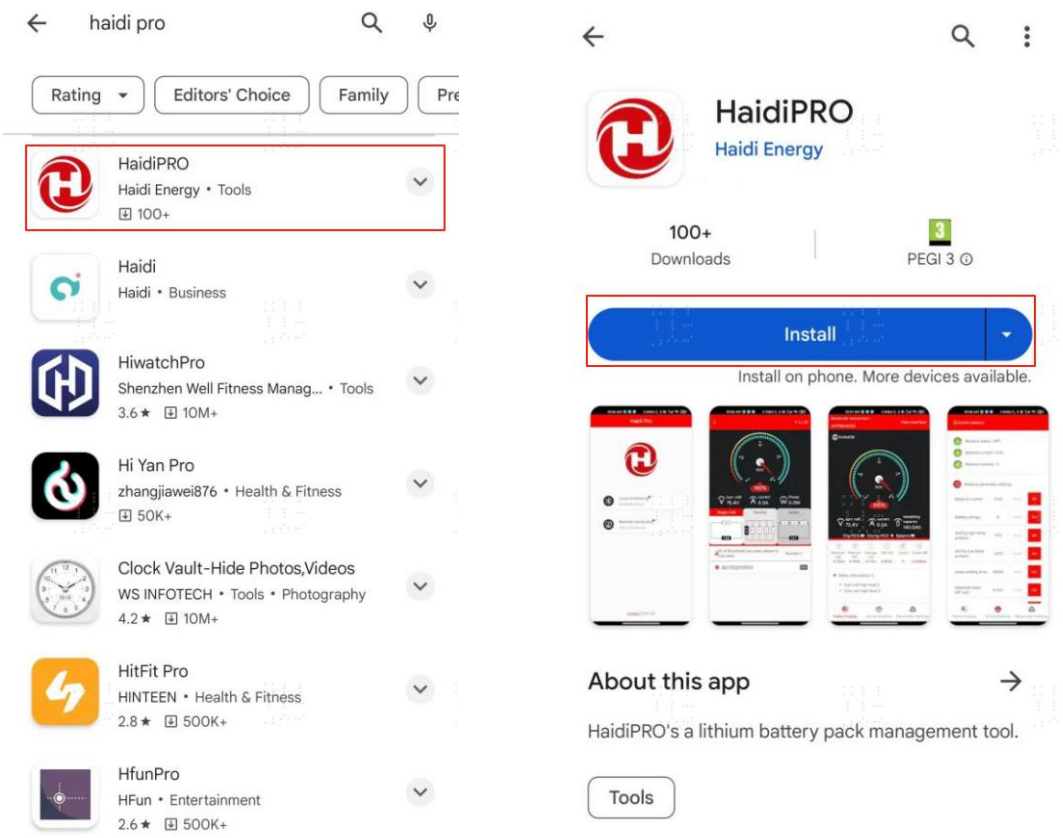


Figure Figure 1. HaiDi Pro

1.2 Open the Apple App Store on your phone, search for "HaiDi Pro", and then download it.

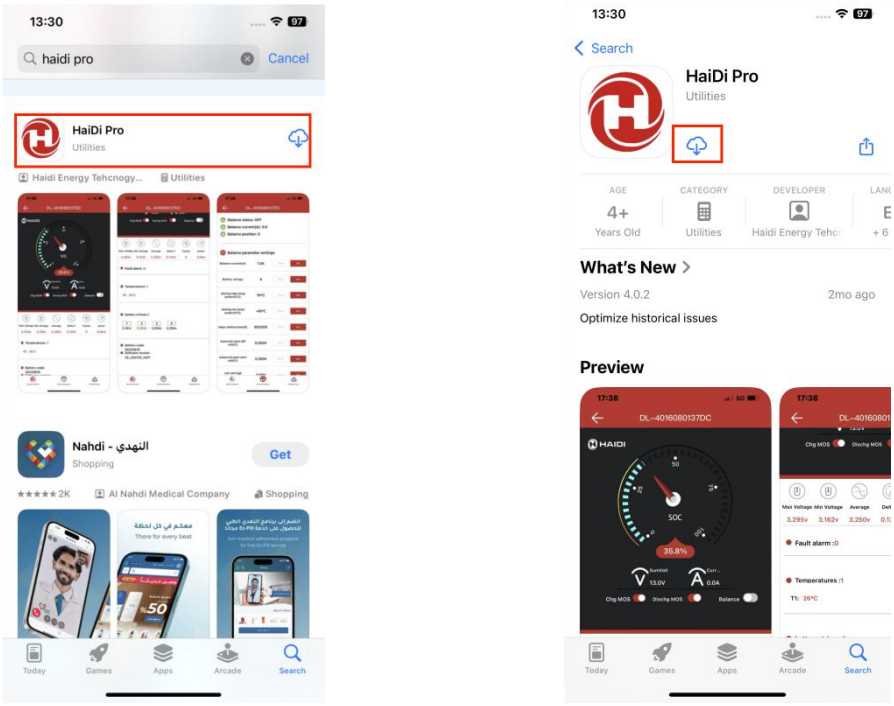


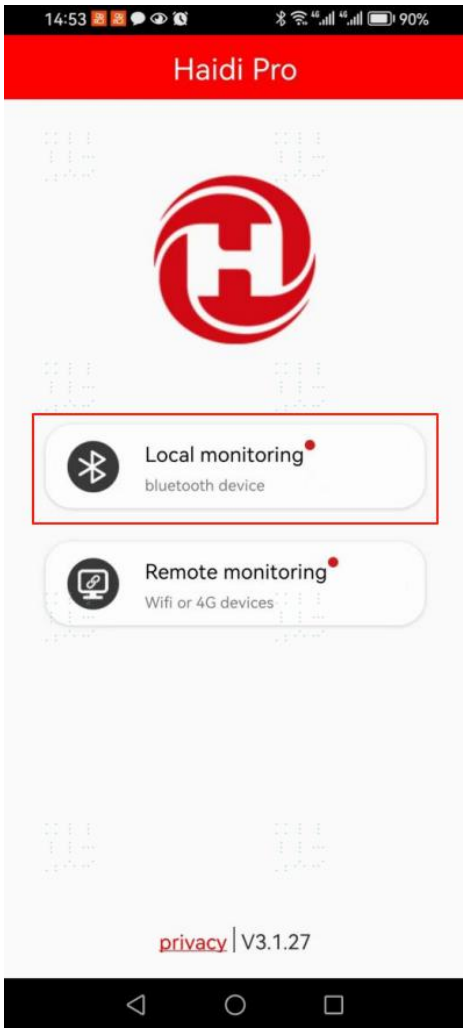
Figure 2. HaiDi Pro

1.3 install the HAIDI Bluetooth APk software, and the installed APP software is shown in Figure 3;

Figure 3 HaiDi Pro

II. Device Search and Network Connection

2.1 Click the HAIDI software in Figure 3,open the APP software, and click "Local montiroing" as shown in Figure 4;



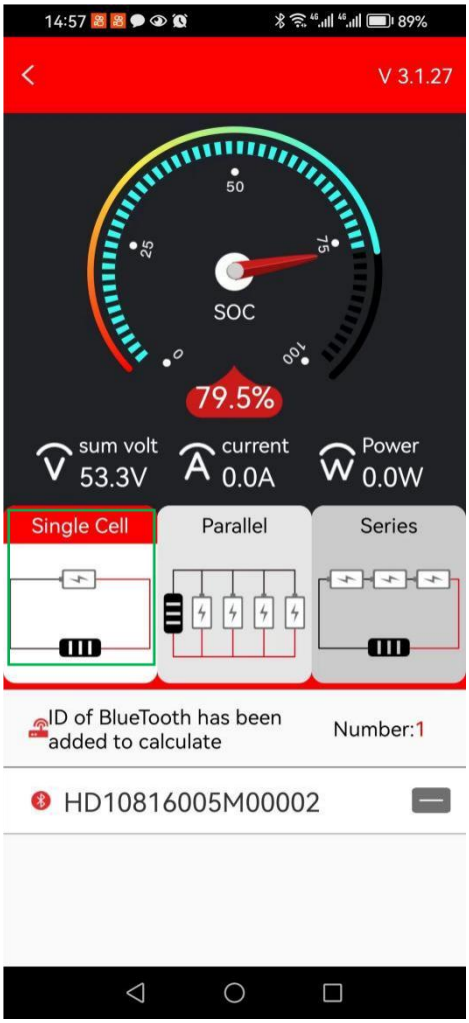


Figure 4 Main interface

The main interface includes (3 monitoring modes):

(1): Single Cell Bluetooth monitoring;

(2): Parallel parallel Bluetooth monitoring;

(3): Series series Bluetooth monitoring;

The bottom shows the number of Bluetooth connections and the already connected Bluetooth module, and the minus sign is to remove the Bluetooth module ID; if you click the ID of the Bluetooth module, directly enter the real-time status interface of the battery pack of the Bluetooth module (Figure 7); if you want to enter the battery pack of the new Bluetooth module, click any of the three monitoring modules to enter the Bluetooth module ID search and add interface (Figure 6);

2.2 After clicking "Single Cell", the operation interface is shown in Figure 5;

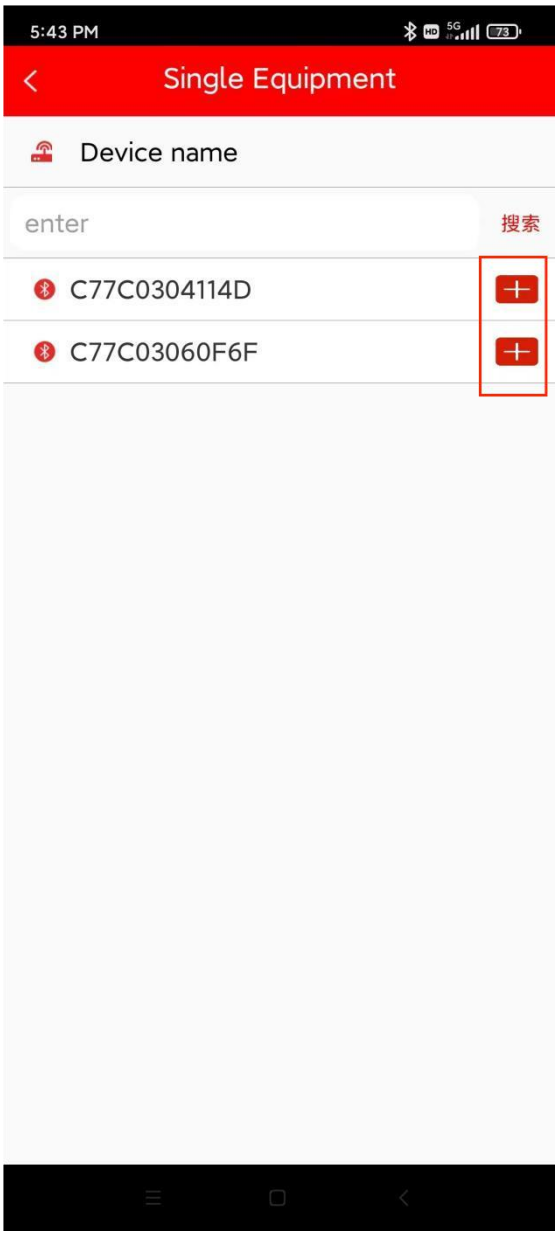


Figure 5: Bluetooth search to add the interface

Bluetooth search to add the interface

(1): You can directly search the Bluetooth module ID you want (online);

(2): You can directly choose the online Bluetooth module ID, click the plus number to add;

(3): After the selection, exit the Bluetooth search and add interface and enter the main interface;

III. Data Monitoring Interface

3.1 Click the Bluetooth module ID to enter the real-time state interface

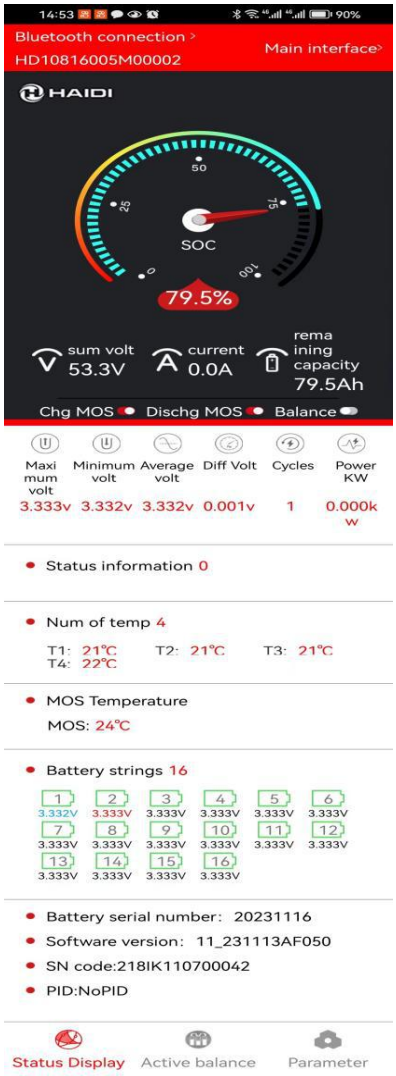


Figure 6 Real-time status interface

Real-time status interface

(1): Display the SOC value of the battery pack and the health status of the battery pack;

(2): Battery pack voltage value and current value;

(3): Whether the battery pack is allowed to charge and discharge, and whether the balance is on (green is allowed / on);

(4): maximum voltage / minimum voltage / average voltage / differential voltage difference / cycle times in the battery pack / working power of the battery pack;

(5): Status alarm information / data upload of the battery pack;

(6): Temperature monitoring quantity / temperature value;

(7): Number of battery pack strings / voltage value of each string;

(8): Battery pack ID code / protection board software version / upgrade button;

IV. Active Balancing Interface

4.1 Click "Active balance" to enter the active equalization interface; (no equalization module is available)

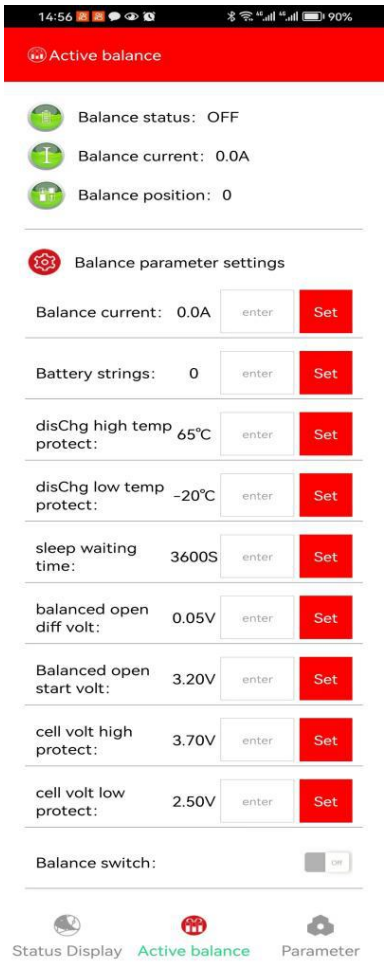


Figure 7. The Active balace interface

Active balance Interface

(1): Balance status ;
(2): Balance current;
(3): Balance position setting;
(4): Balance parameter settings; (the customer is not recommended to modify);
(5): Balance current setting;
(6): Battery strings setting;
(7): Discharge high temperature protect setting;
(8): Discharge low temperature protect setting;
(9): Sleep waitingtime setting;
(10): balanced open diff volt setting;
(11): Balanced openstart volt setting;

V. Protection Parameter Setting Interface

5.1 Click the "Protection parameters" setting to enter the parameter setting interface (Figure 8);

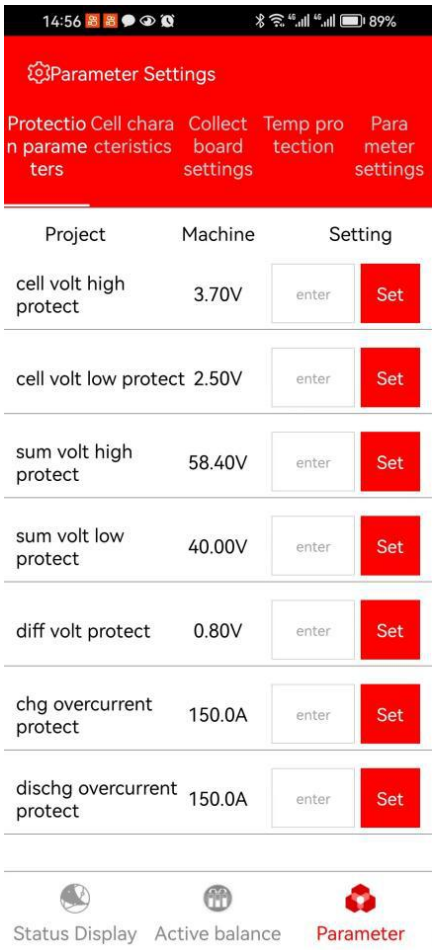


Figure 8. The Protection parameters interface

5.1.1 Protectionn parameTers Interface (5 parameter setting interface)

(1)：Protectionn parameters；

(2): Cell charac teristics interface;

(3): Collect board settings interface;

(4): Temp protection interface;

(5): Para meter settings interface;

5.1.2 Protection board parameter setting interface

(1): cell volt highprotect threshold setting;

(2): cell volt low protect threshold setting;

(3): sum volt high protect threshold setting;

(4): sum volt low protect threshold setting;

(5): diff volt protect threshold setting;

(6): chg overcurrent protect threshold setting;

(7): dischg overcurrentprotect threshold setting;

VI. Cell Parameter Setting Interface

6.1 Click the "Cell characteristics" parameter to enter the cell parameter setting interface.

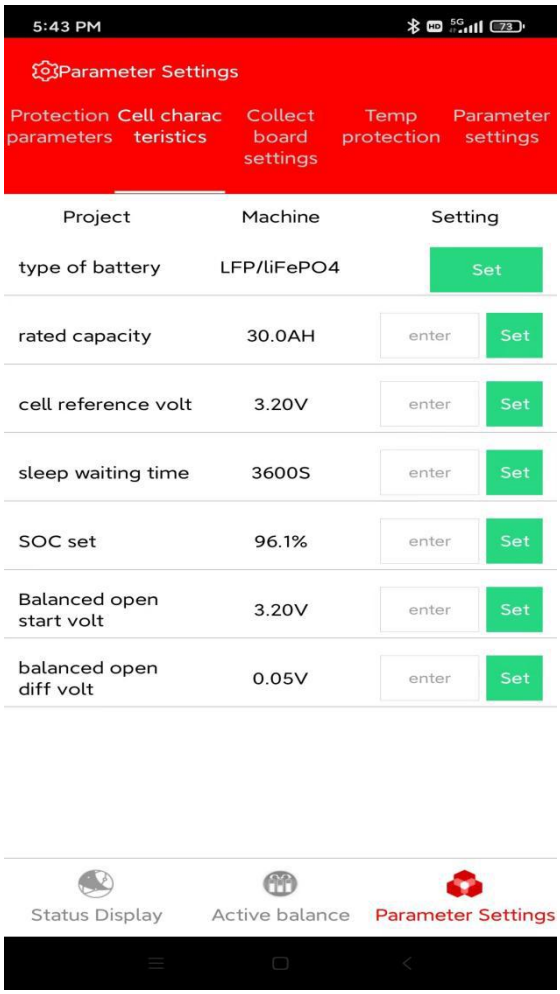


Figure 9 Cell characteristics interface

Cell charac teristics Interface

(1)：type of battery:LFP/LiFePO4；

(2)：rated capacity：30Ah；

(3)：cell reference volt：3.2V；

(4)：sleep waiting time；

(5)：SOC set；

(6)：Balanced openIt was a start；

(7)：balanced opendiff was；

VII. Acquisition Board Parameter Setting Interface

7.1 Click the "Colect board settings" parameter to enter the parameter setting interface of the acquisition board (Figure 10, requires no setting);

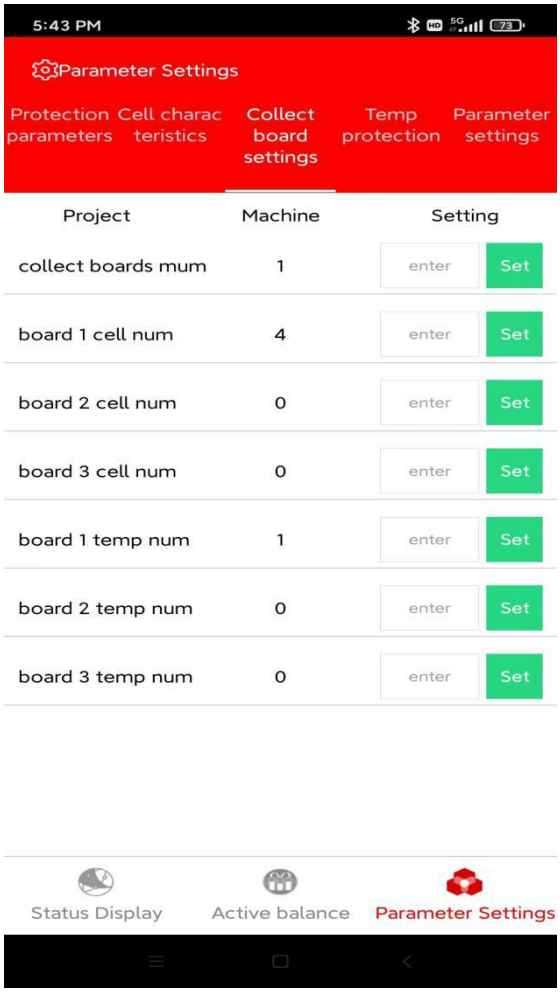


Figure Figure 10 Colect board settings interface

Colect board settings Interface

(1): collect boards mum quantity;

(2): board 1 cell num Collection quantity;

(3): board 2 cell num Collection quantity;

(4): board 3 cell num Collection quantity;

(5): board 1 temp num Collection quantity;

(6): board 2 temp num Collection quantity;

(7): board 3 temp num Collection quantity;

VIII. Temperature Protection Parameter Setting Interface

8.1 Click the "Temp protection" parameter to enter the temperature protection parameter setting interface (Figure 11);

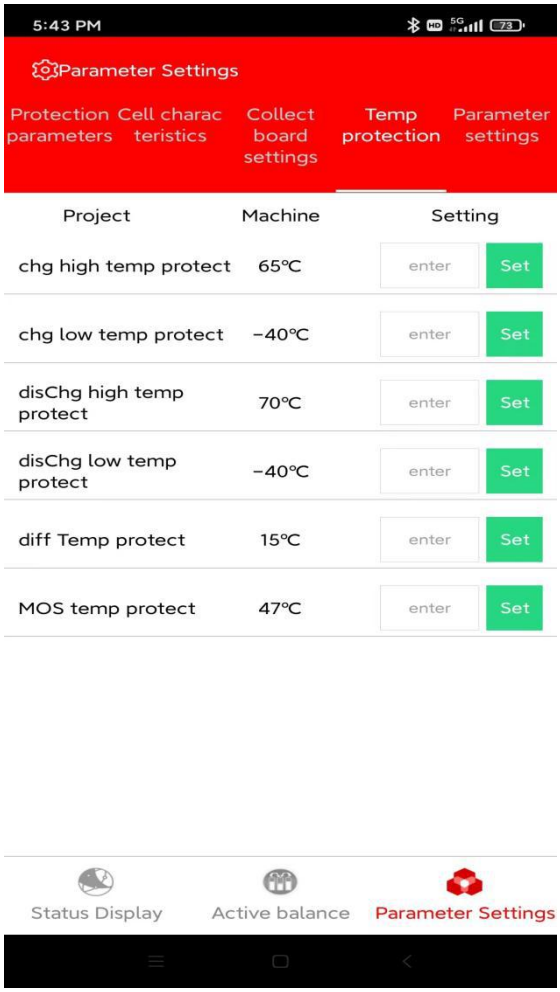


Figure 11. The Temp protection interface

Temp protection Interface

(1): chg high temp protect setting;

(2): chg low temp protect setting;

(3): disChg high tempprotect setting;

(4): disChg low tempprotect setting;

(5): diff Temp protect setting;

(6): MOS temp protect setting;

IX. System Parameter Interface Setting

9.1 Click the "Parameter settings" parameter to enter the system parameter setting interface.

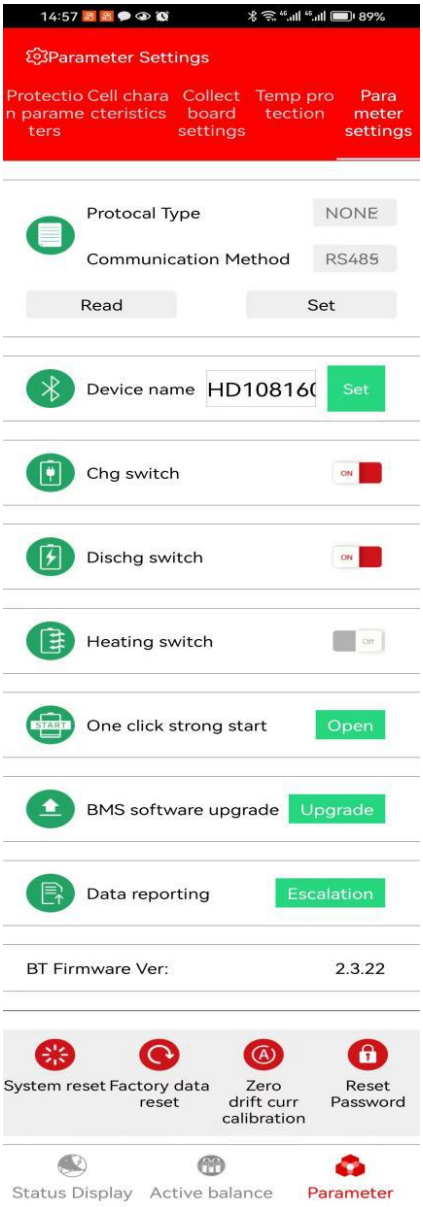


Figure 12. The Parameter settings interface

Para meter settings Interface

(1): Protocal Type setting;

(2): Device name setting;

(3): Chg switch setting;

(4): Dischg switch setting; (BMS with heating sheet)

(5): Heating switch setting; (belongs to startup BMS)

(6): One click strong start setting