



51.2V 345/314/280Ah Floor-Standing PACE DIY Kits Assembly Instruction

WARNING

If any parts are missing, damaged or worn, stop using this KITS. Repair the KITS with manufacturer supplied parts.

IMPORTANT

Assembly warnings and packaging inspection align with diesel generator installation guidelines emphasizing safety checks and post-unpacking procedures.

Removing protective layers corresponds to warnings about protective films in equipment handling.

Verifying components mirrors standardized unpacking protocols for technical devices.

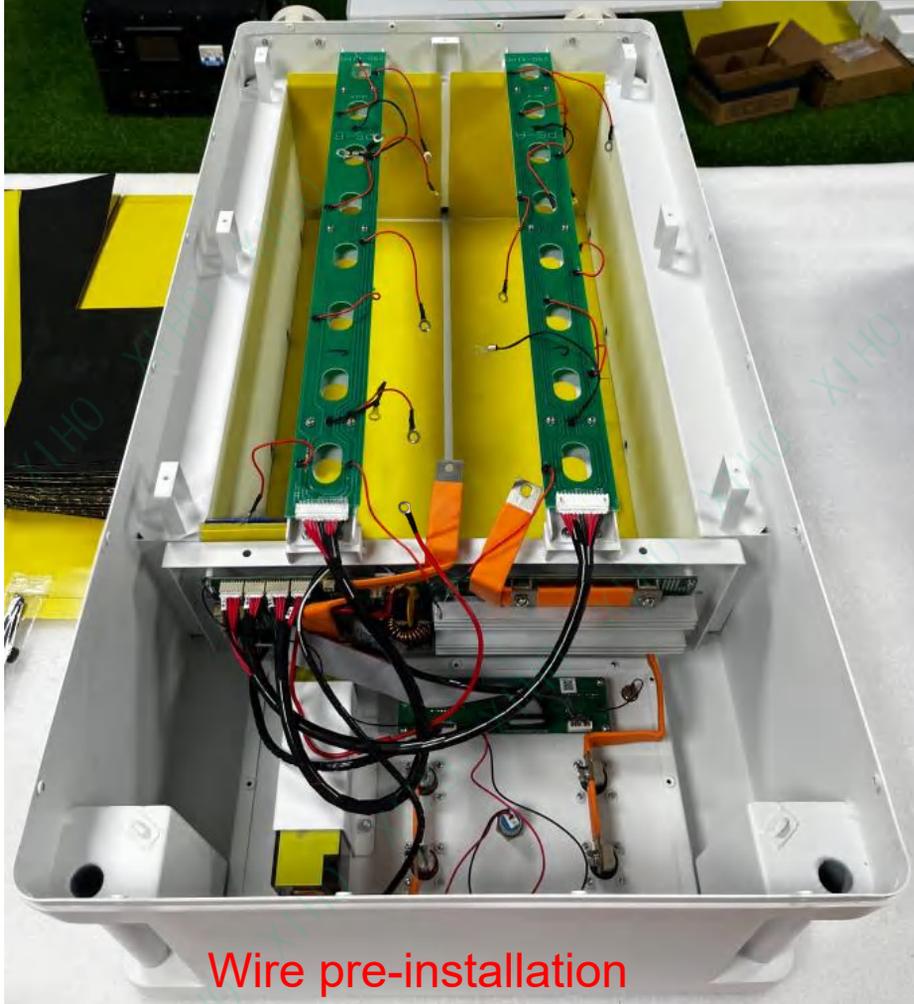
ALL DIY Kit accessories are included in the DIY box

Remove all screws from the DIY box and keep them safely for securing the battery during reassembly.



Note:

The screws on the back cover plate need not be removed.



Wire pre-installation

Note: Please check the PCB board connection line upon receiving the DIY kit accessories. Incorrect assembly contrary to the manual instructions will void the warranty. Refer to the image below for labels on PCB-A (PS-A) and PCB-B (PS-B) boards.

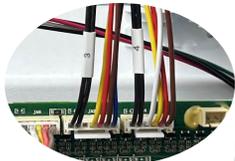


PCB-B(PS-B)
In the left
(In picture direction)

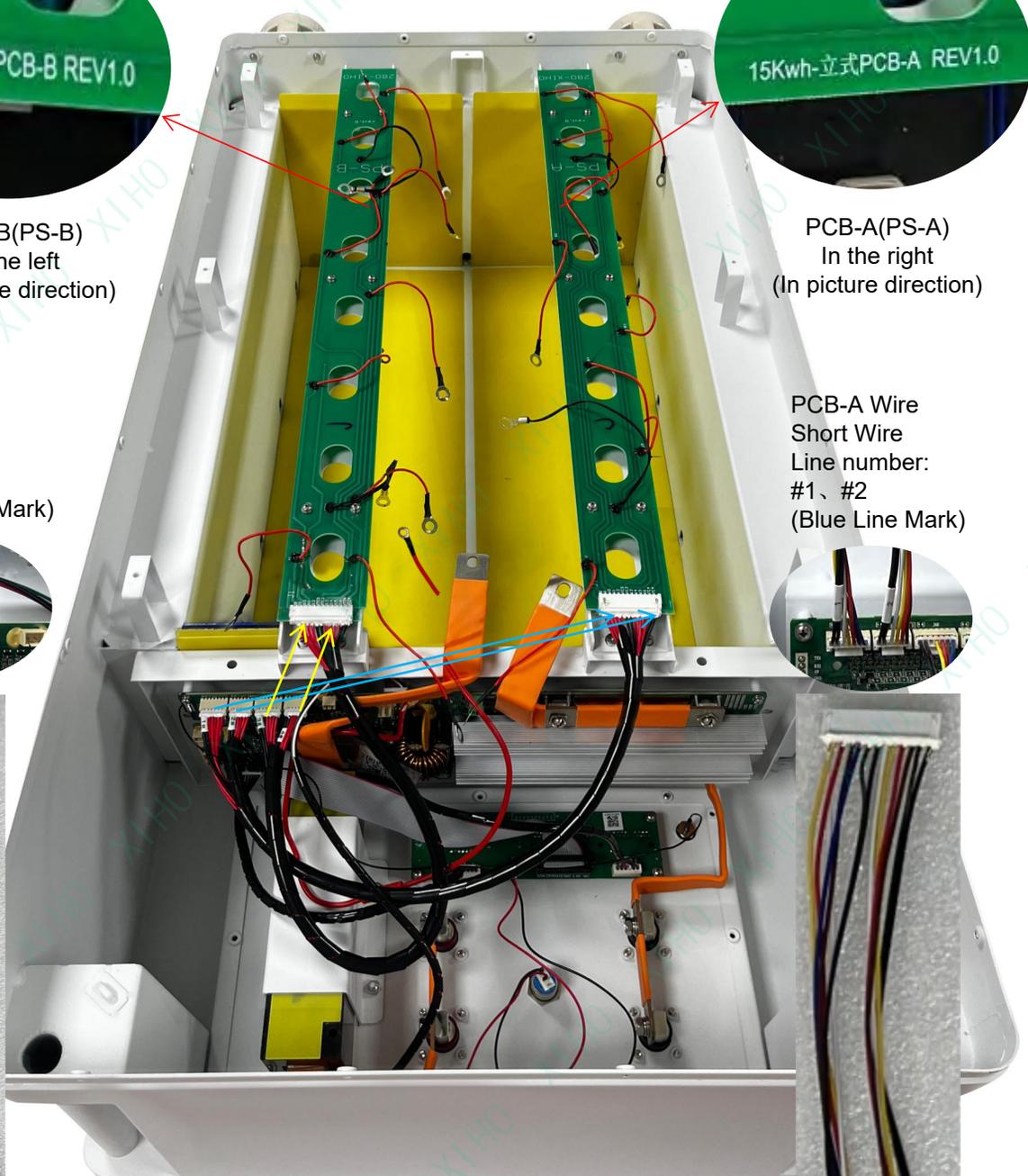
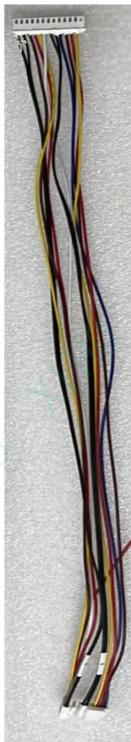


PCB-A(PS-A)
In the right
(In picture direction)

PCB-B Wire
Long Wire
Line number:
#3、#4
(Yellow Line Mark)

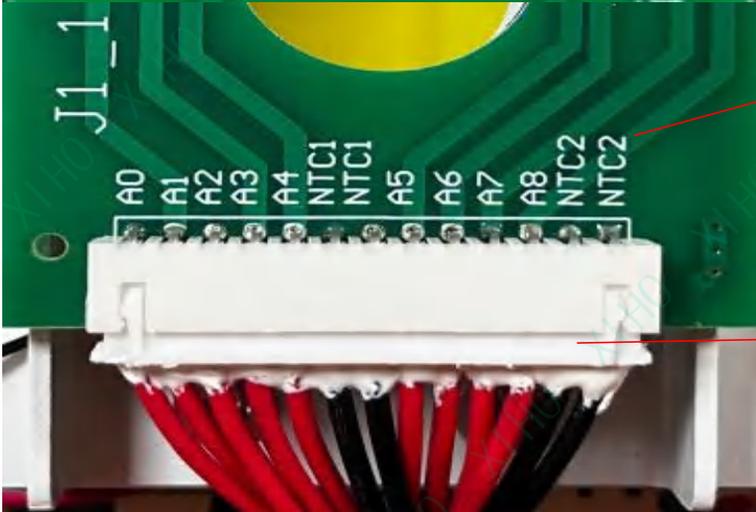


PCB-A Wire
Short Wire
Line number:
#1、#2
(Blue Line Mark)





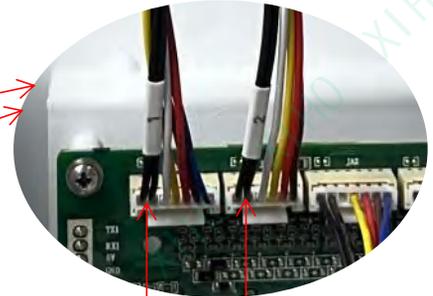
PCB-A (PS-A)



A0,A1,A2,A3,A4,
A5,A6,A7,A8,
NTC1,NTC2



PCB-A Wire
Short Wire
Line number:
#1、 #2



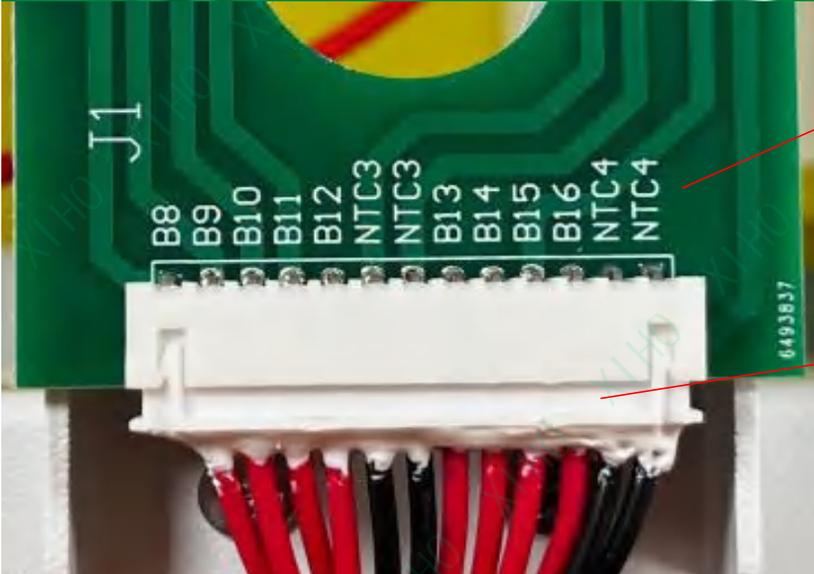
Connection Note: Ensure the black numbered cable is on the LEFT. Incorrect orientation will short-circuit and permanently damage the PCB board.



PCB-A(PS-A) board is marked with wires, they are **JA5**、 **JA6**, and there are **11 lines** on the collector terminal;
PCB-A(PS-A) connect Line number:#1、 #2,It corresponds to the BMS motherboard,you must confirm the wiring before inserting, or else it will damage the BMS, and we won't provide after-sales service.

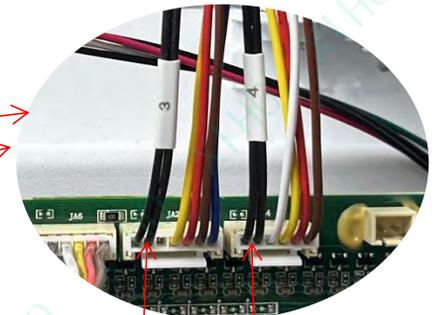
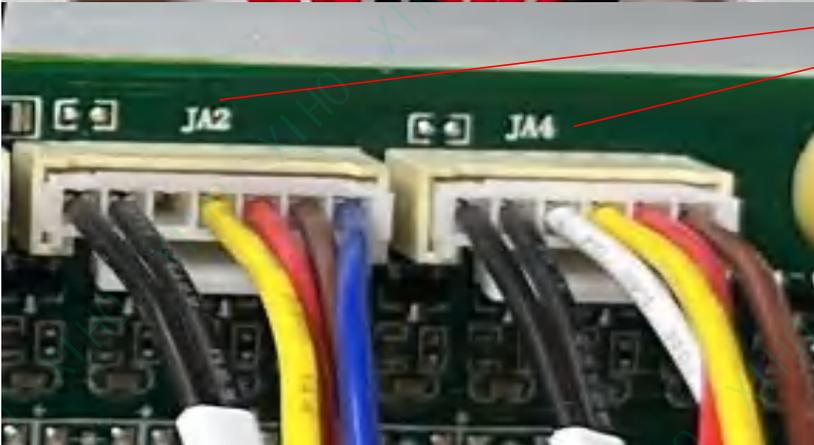


PCB-B(PS-B)



B8,B9,B10,B11,B12,
B13,B14,B15,B16,
NTC3,NTC4

PCB-B Wire
Long Wire
Line number:
#3、 #4



Connection Note: Ensure the black numbered cable is on the LEFT. Incorrect orientation will short-circuit and permanently damage the PCB board.

PCB-B(PS-B) board is marked with wires, they are **JA2、 JA4**, and there are **11 lines** on the collector terminal;

PCB-B(PS-B) connect Line number:#3、 #4 , It corresponds to the BMS motherboard,you must confirm the wiring before inserting, or else it will damage the BMS, and we won't provide after-sales service.



Note: Please make sure that the products you receive are as follows. If you receive the products and they are inconsistent with the picture, you should report to our customer service in time. Do not assemble them without permission.



PCB-B(PS-B)
In the left
(In picture direction)

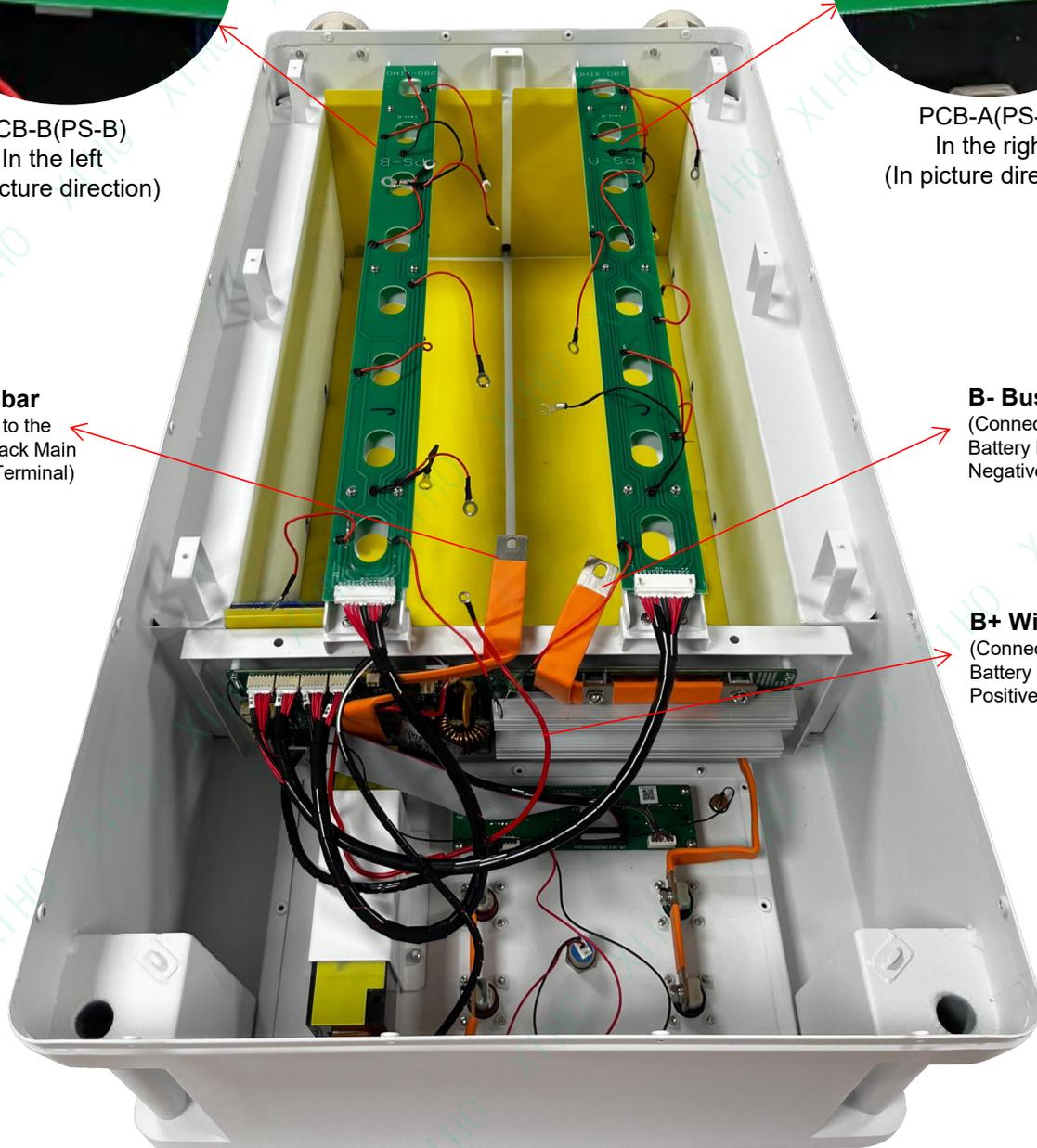


PCB-A(PS-A)
In the right
(In picture direction)

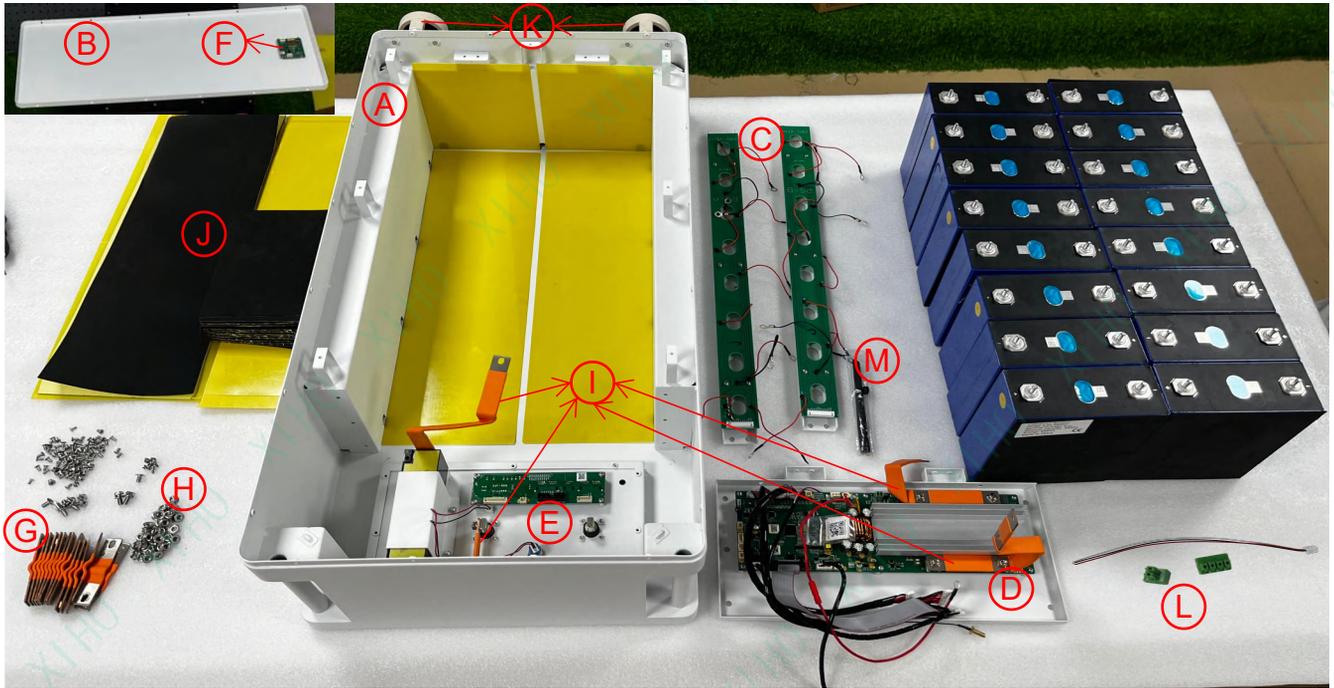
P+ Busbar
(Connect to the
Battery Pack Main
Positive Terminal)

B- Busbar
(Connect to the
Battery Pack Main
Negative Terminal)

B+ Wire
(Connect to the
Battery Pack Main
Positive Terminal)



Packing list: Please check the product carefully after receiving it, if any accessories are missed, **please contact XIHO.**



A.(Pre-installed)
Metal Box*1



B.(Pre-installed)
Cover plate*1
Screen*1



C.(Pre-installed)
PCB Board*2
(PS-A*1,PS-B*1)



D.(Pre-installed)
Middle panel*1 / BMS Mainboard*1
Antenna Wire*1 / J1 Wire*1
J28 Wire*1 / J29 Wire*1 / PCB Wires*2
B+ Wire*1 / Display Wire*1



E.(Pre-installed)
Back plate*1 / Switch Wire*1 / Communication Module*1
Positive and negative terminals*4 / Circuit Breaker*1



F.(Pre-installed)
Screen*1



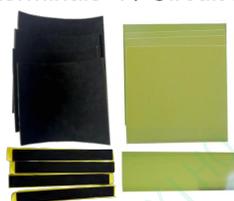
G.Copper
Flexible
Busbar*15



H.Screws*32
(Accessory
provided with
battery purchase)



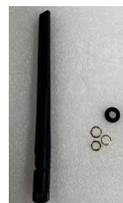
I.(Pre-installed)
Copper Busbars*4



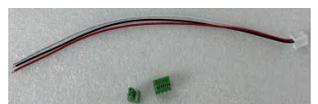
J.EVA Foam*20
Epoxy Board*9



K.(Pre-installed)
Foma Wheels*4

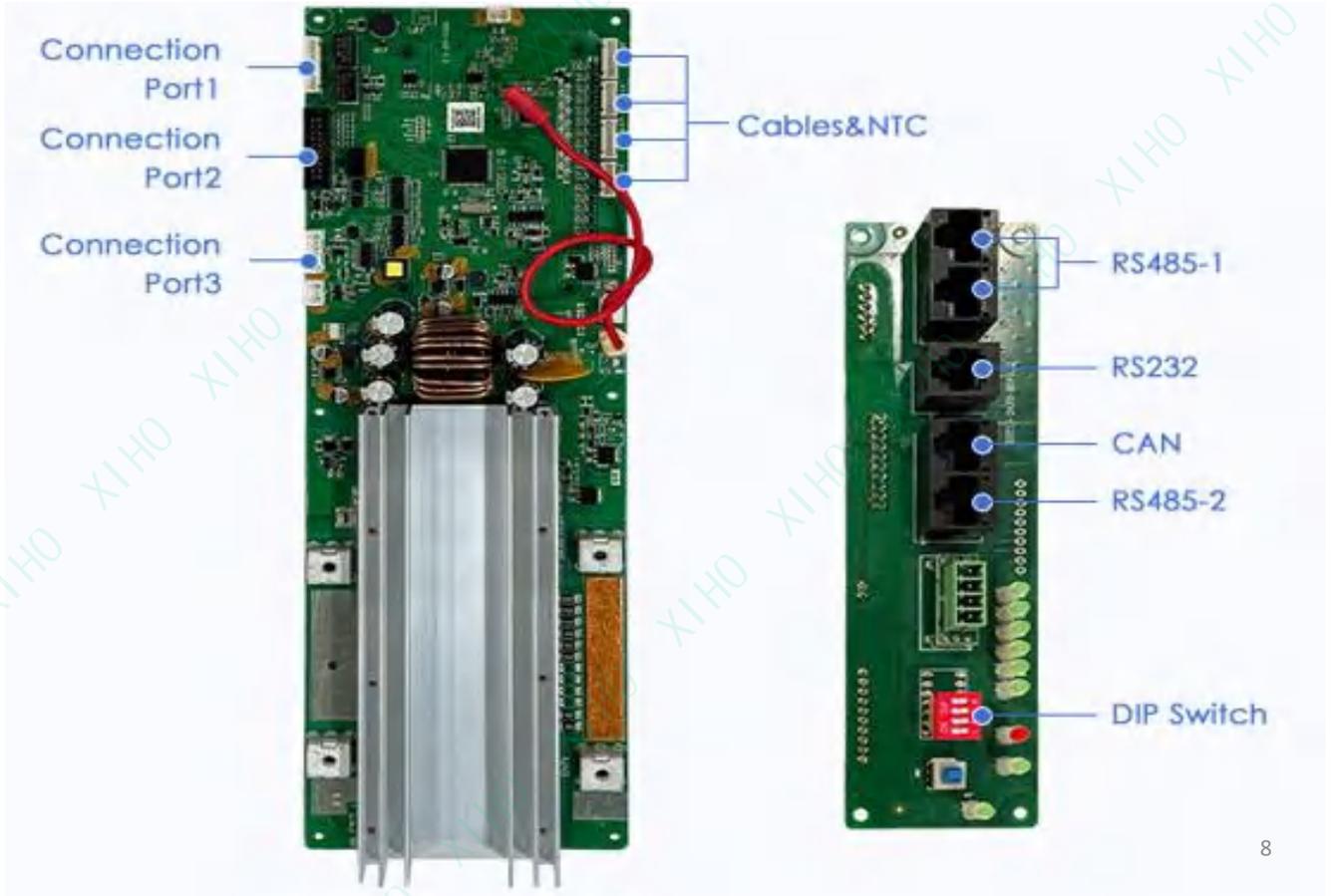
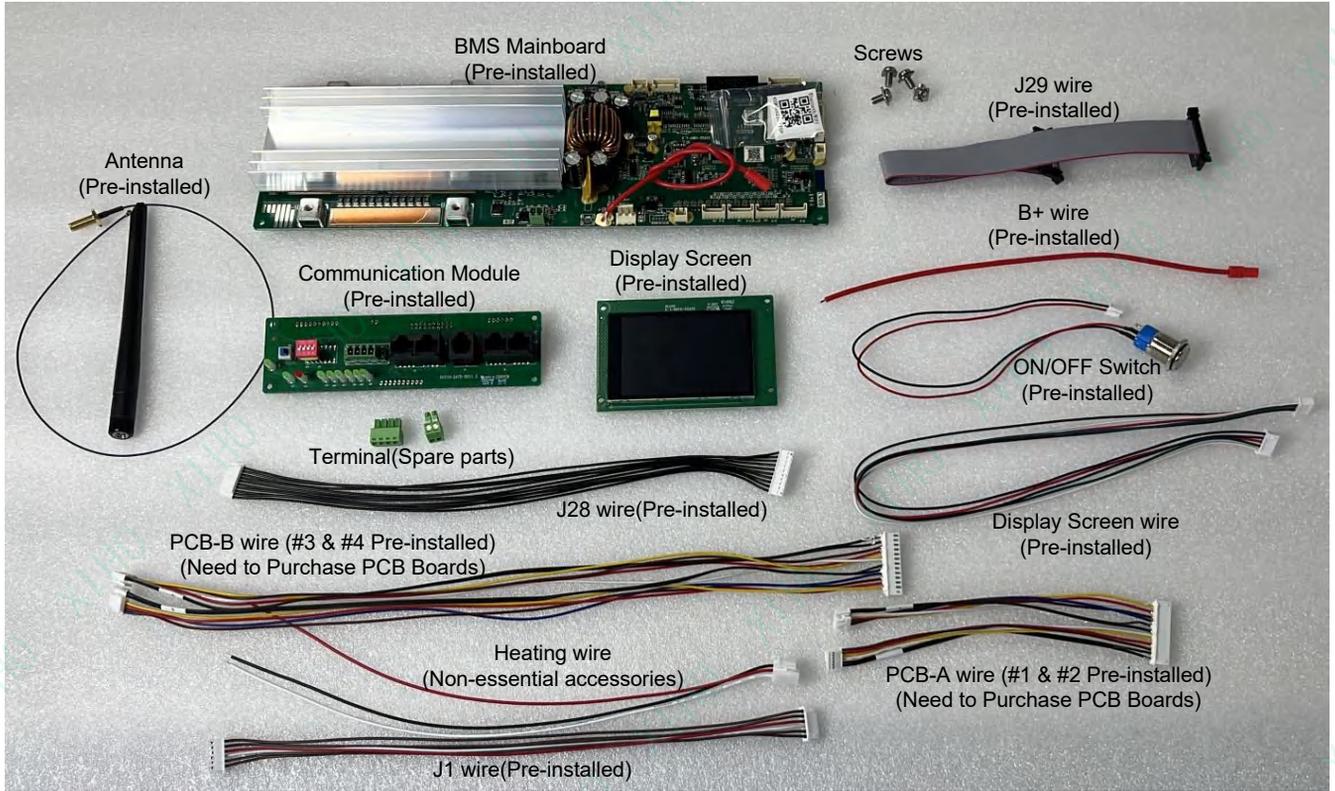


M.Antenna*1



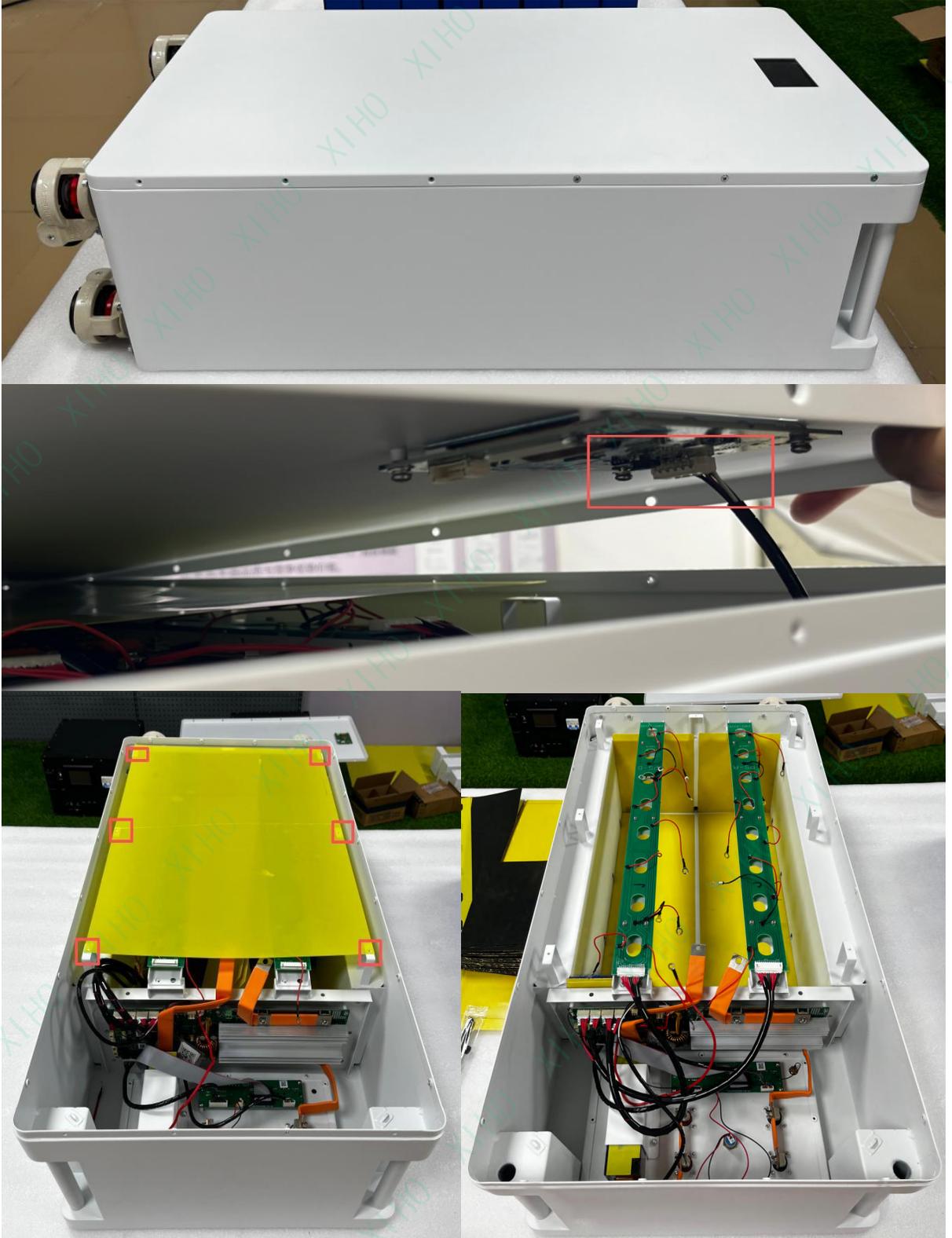
L.Heating wire*1
Terminal*1
(Spare parts)

PACE 16S200A List: Please check the product carefully after receiving it, if any accessories are missed, **please contact XIHO.**



Assembly Steps:

1. Remove Cover plate(B) and Epoxy Cover Plate, Disconnect the Display Wire.

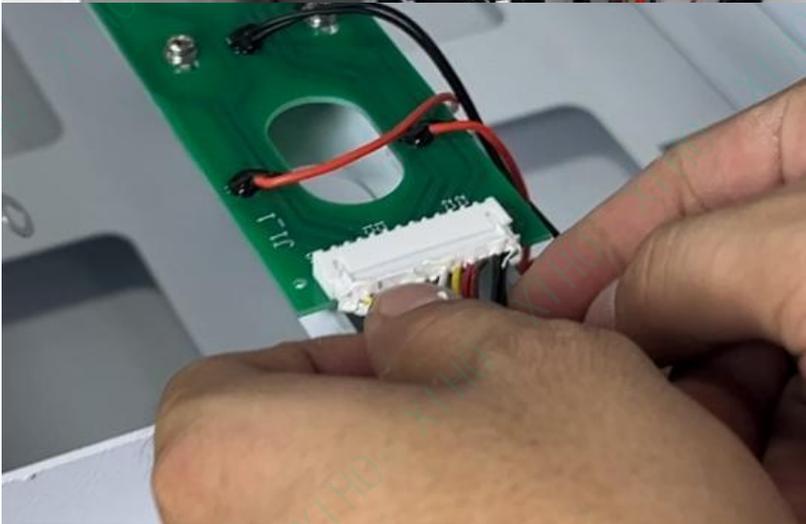
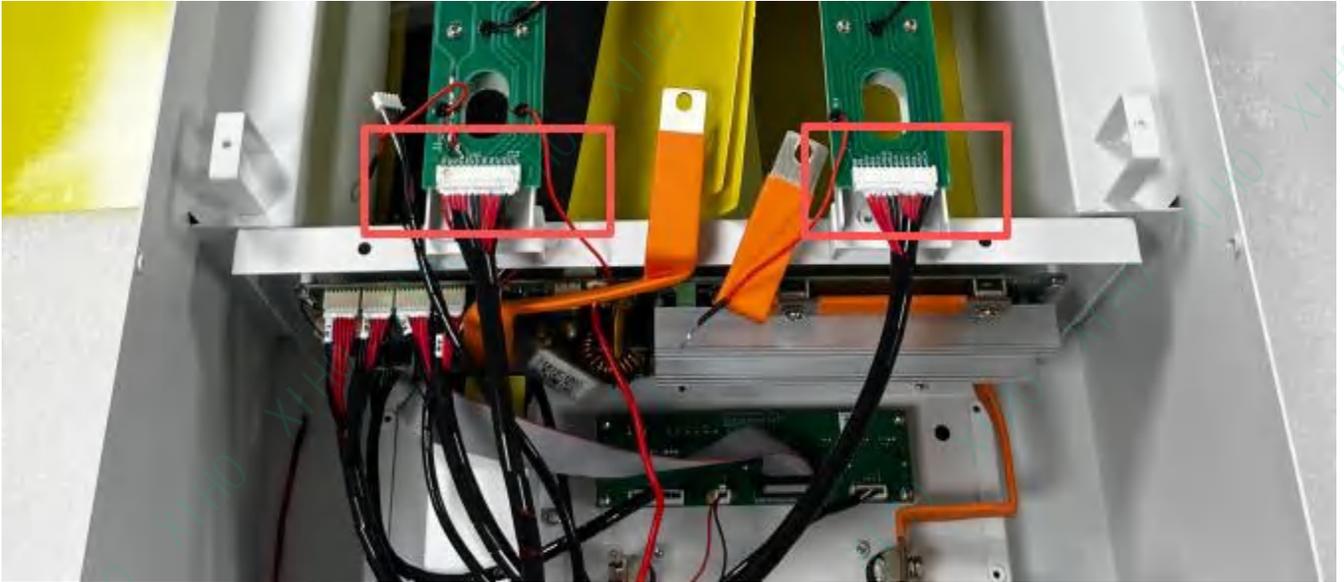


Note:

When opening the upper cover plate, exercise special caution with the screen connector cable and avoid pulling it forcefully.

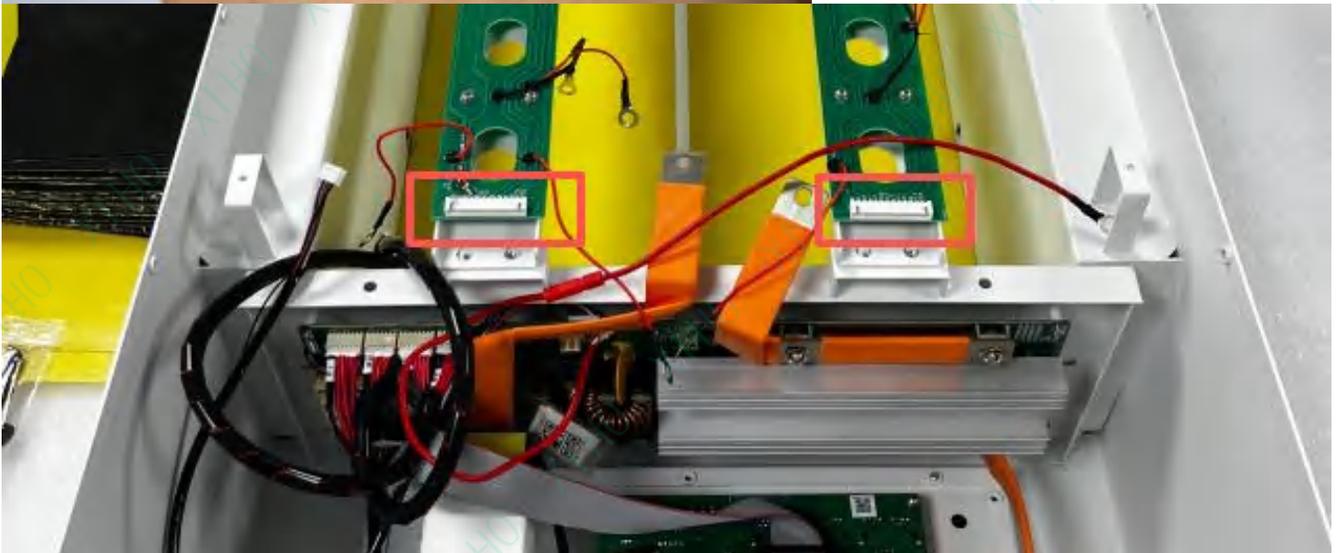
Assembly Steps:

2. Disconnect the PCB-B and PCB-A wire.



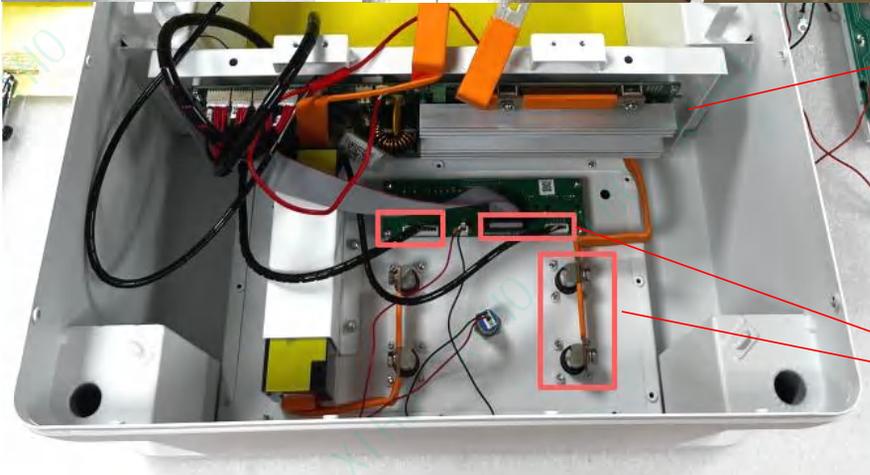
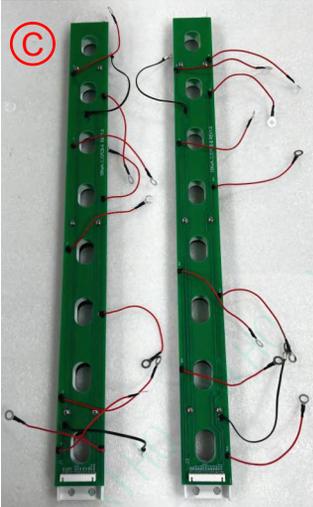
Note:

Gently press both ends inward and squeeze toward the center to release the connector.
Do not pull the cable forcefully to avoid breakage.



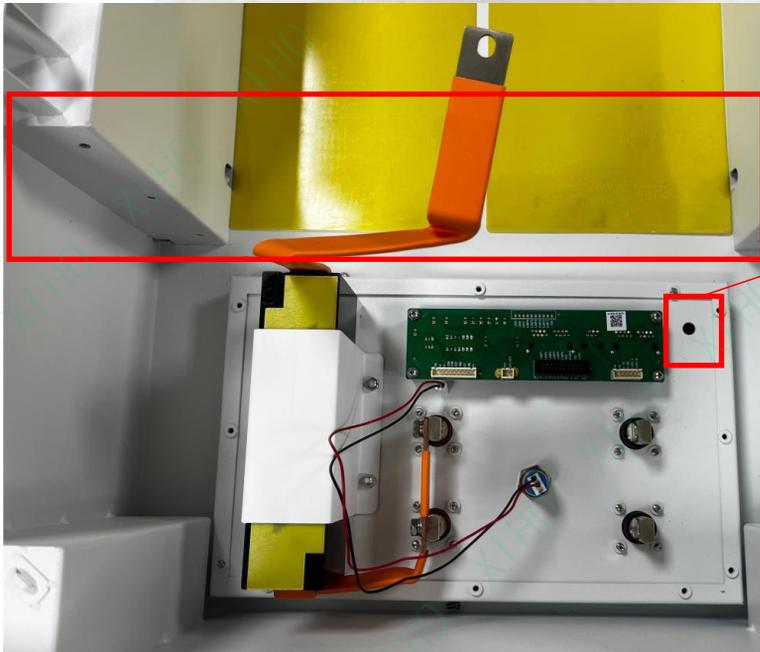
Assembly Steps:

3. Remove PCB board(C), middle panel(D), Retain all removed screws securely for reassembly.



Remove the screws using the free **Allen wrench** provided.

Note:
Remove the J1, J28, J29 wires and P- busbar

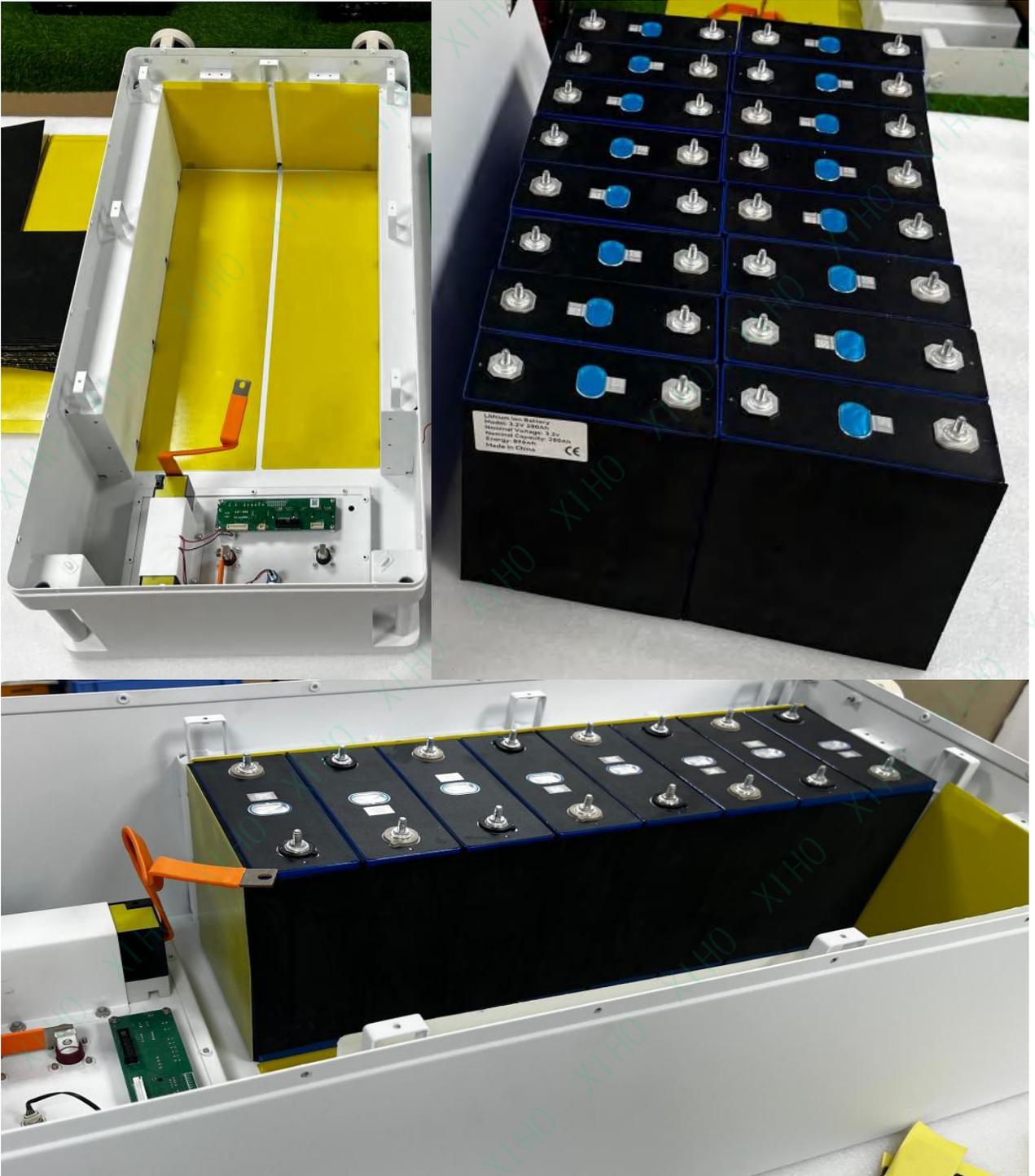


Remove the Middle panel(D)

Note:
An antenna connector is provided on the rear panel. It is typically not installed at the factory.
If an antenna is attached, use extreme caution when disconnecting it to avoid damaging the cable or connector.

Assembly Steps:

4. Put the epoxy board (J) and attach the EVA foam (J) padding onto the battery cells.

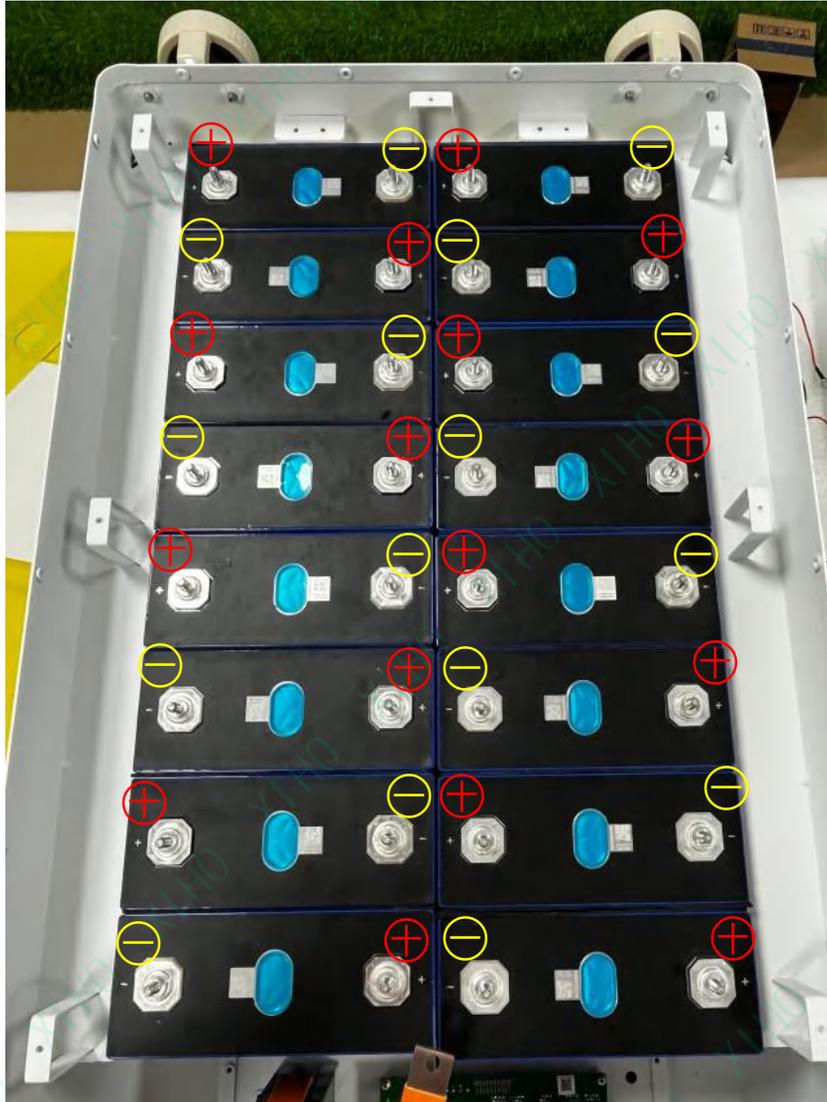


Note:

EVA foam should also be inserted between two battery groups for insulation purposes.

Assembly Steps:

5. Align the battery cells according to the sequence as showed in following picture. **Pay attention to the 1st and 16th battery cells, the negative and positive terminals cannot be reversed.**



Voltage and IR test



Torsion testing

Voltage and internal resistance checking
Cells Voltage difference $\leq 20\text{mV}$

Assembly Steps:

6. Prepare the **middle panel (D)** (removed in Step 3).

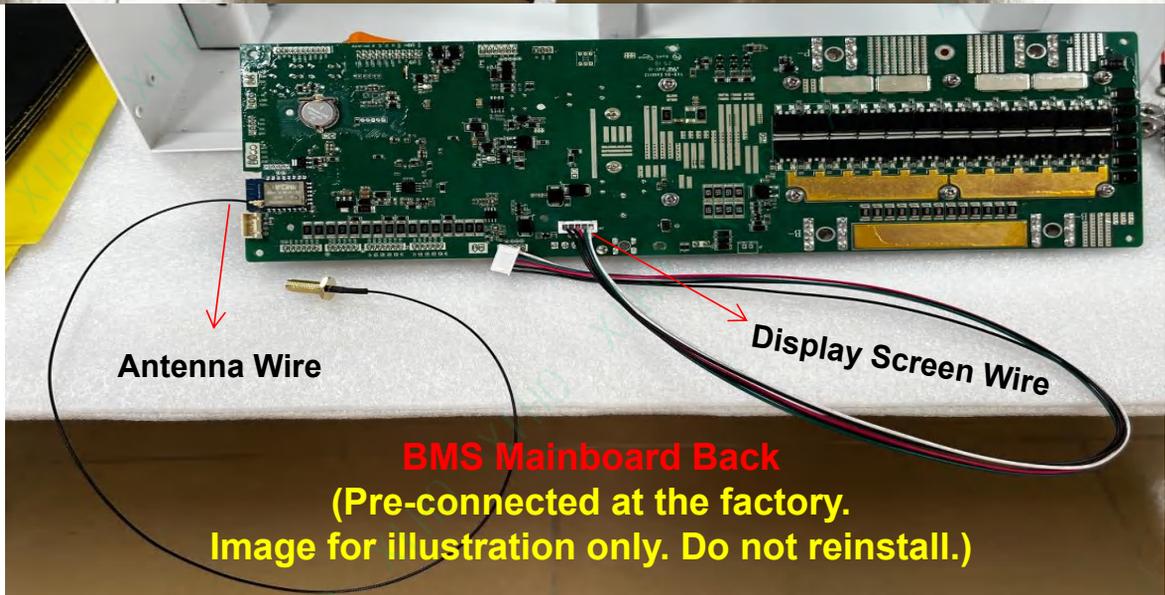
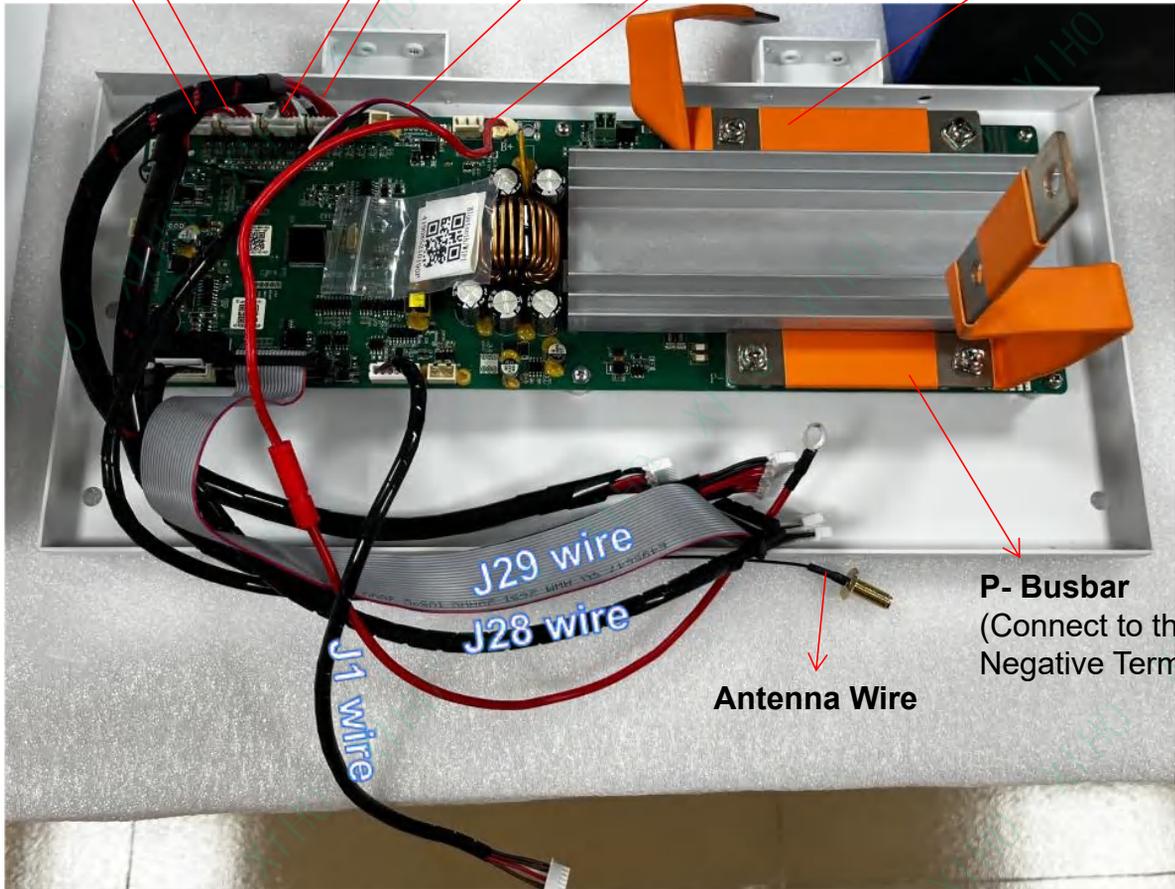
PCB-A
(#1 & #2)Wire
(Connect to the PCB-A Board)

PCB-B
(#3 & #4)Wire
(Connect to the PCB-B Board)

Display Screen Wire

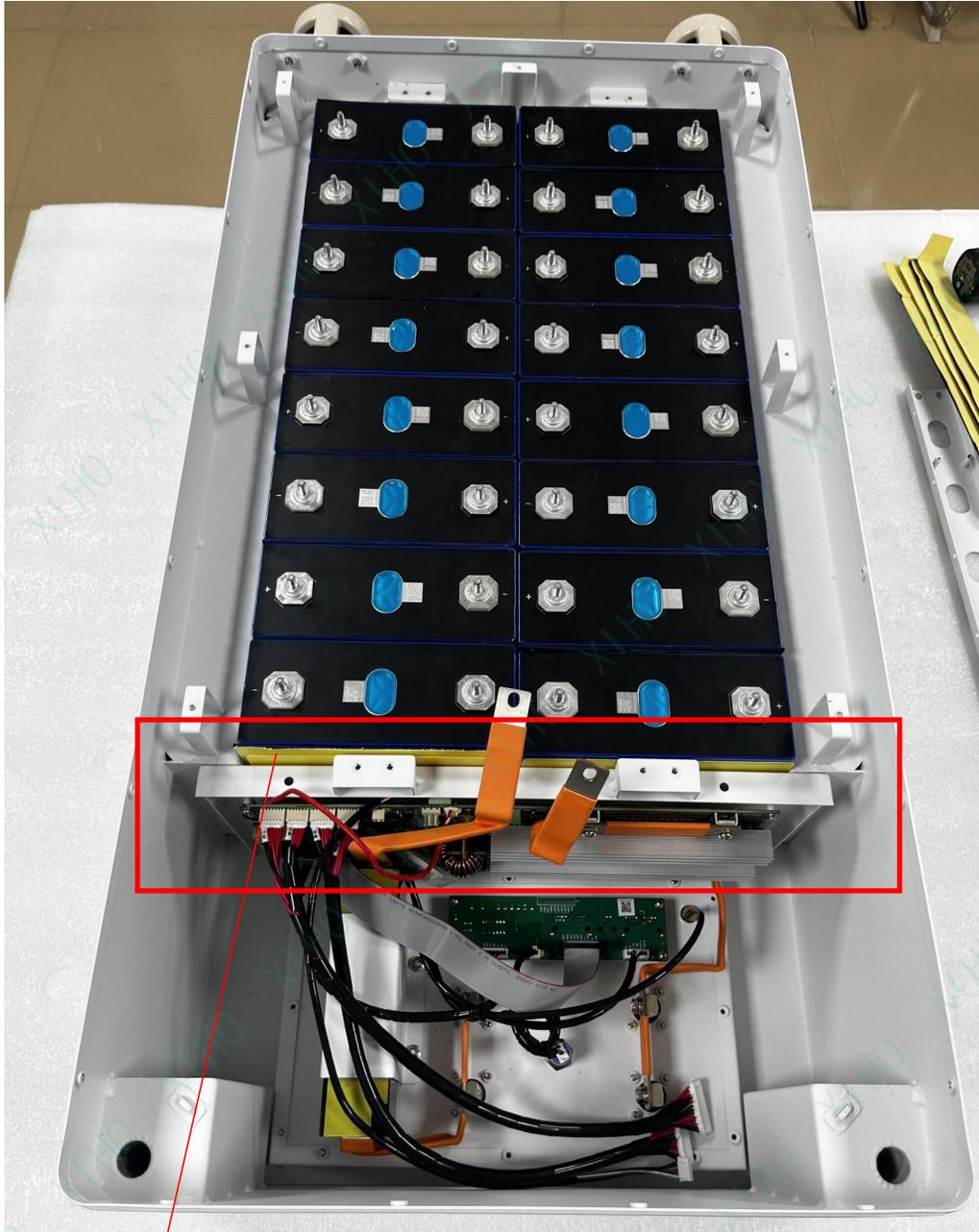
B+ Wire
(Connect to the Battery Pack Main Positive Terminal)

B- Busbar
(Connect to the Battery Pack Main Negative Terminal)



Assembly Steps:

7. Install the middle panel (D) and securely fasten the screws.



Note:

An epoxy board(J) or EVA foam(J) layer must be installed between the front plate and the battery cells to provide electrical isolation and prevent short circuits.

Assembly Steps:

8. As shown in the following image, connect the **middle panel (D)** to the **back plate(E)**, **Connect all wires (J1/J28/J29, Antenna, switch) and the P- busbar as shown in the diagram.**

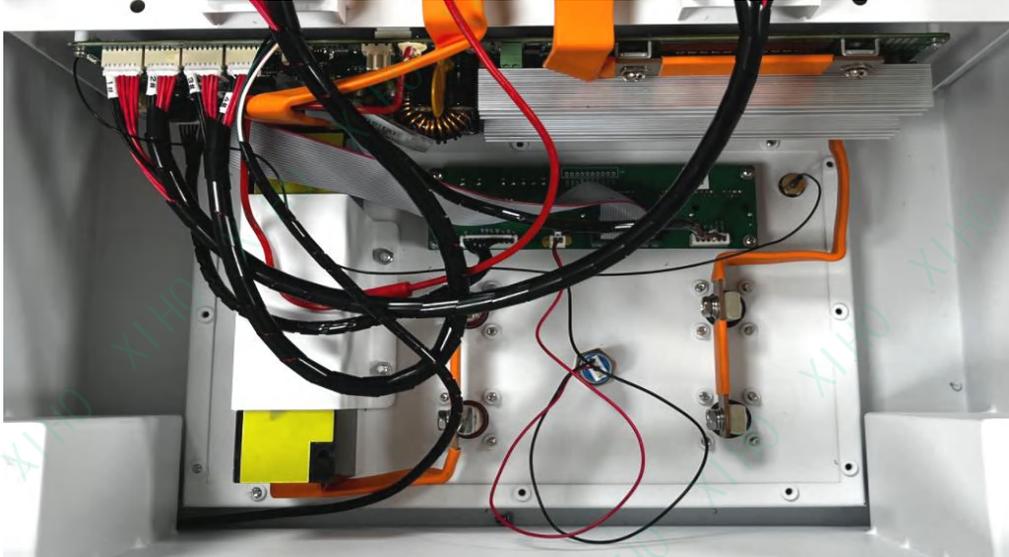
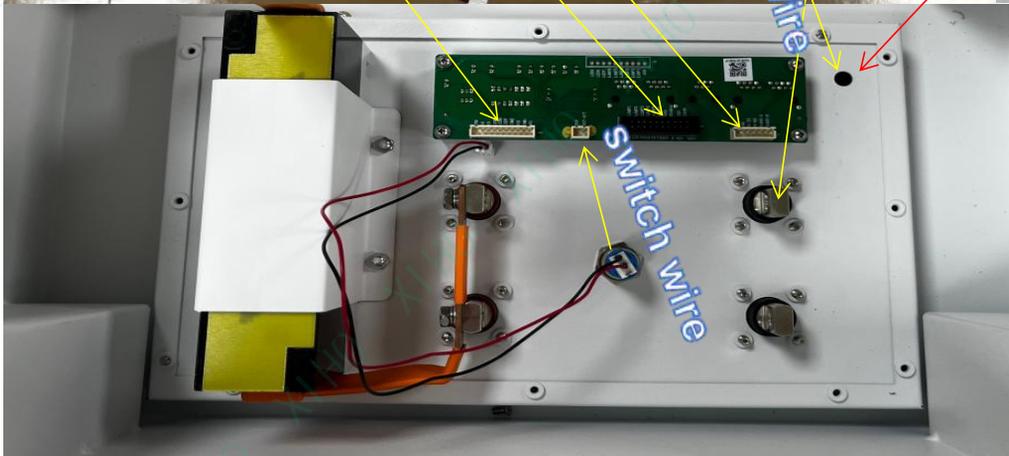
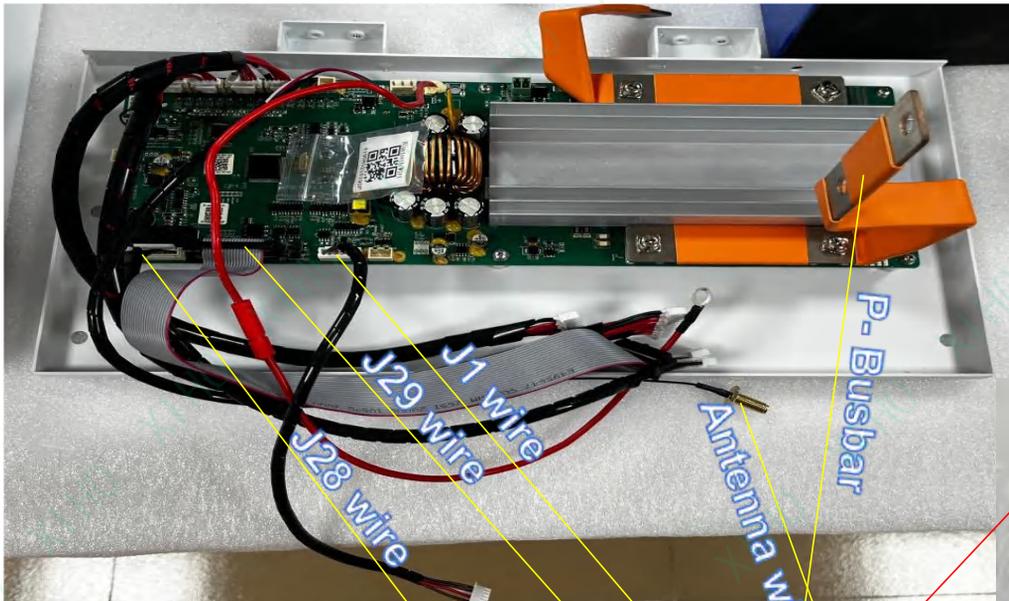
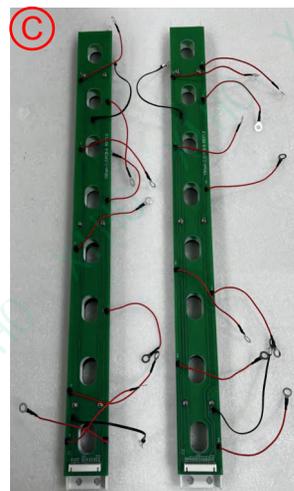
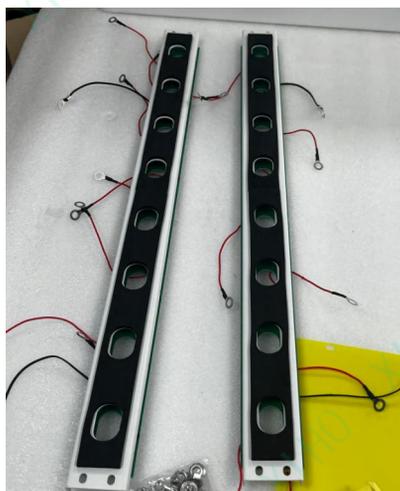
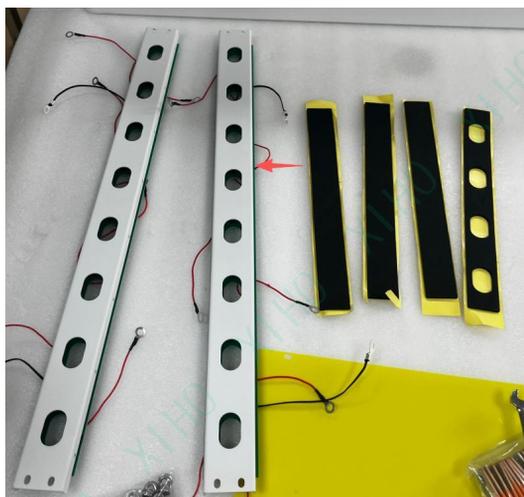


Diagram of Connected State ▲



Assembly Steps:

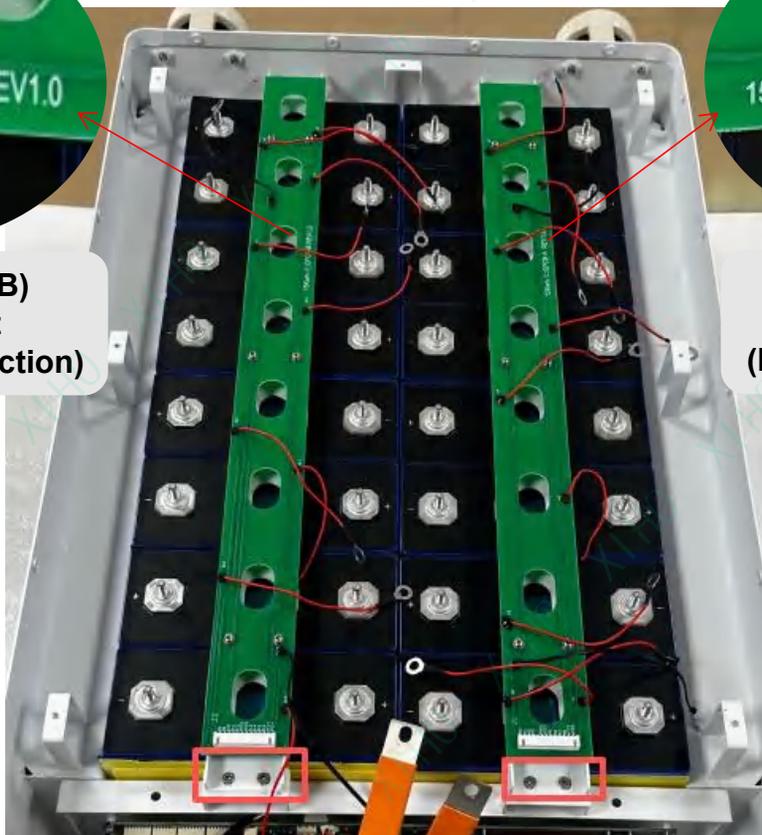
9. As shown in the diagram below, attach the PCB EVA Foam to the PCB bracket. Install PCB board(C), **Pay attention to the position.**



PCB-B(PS-B)
In the left
(In picture direction)

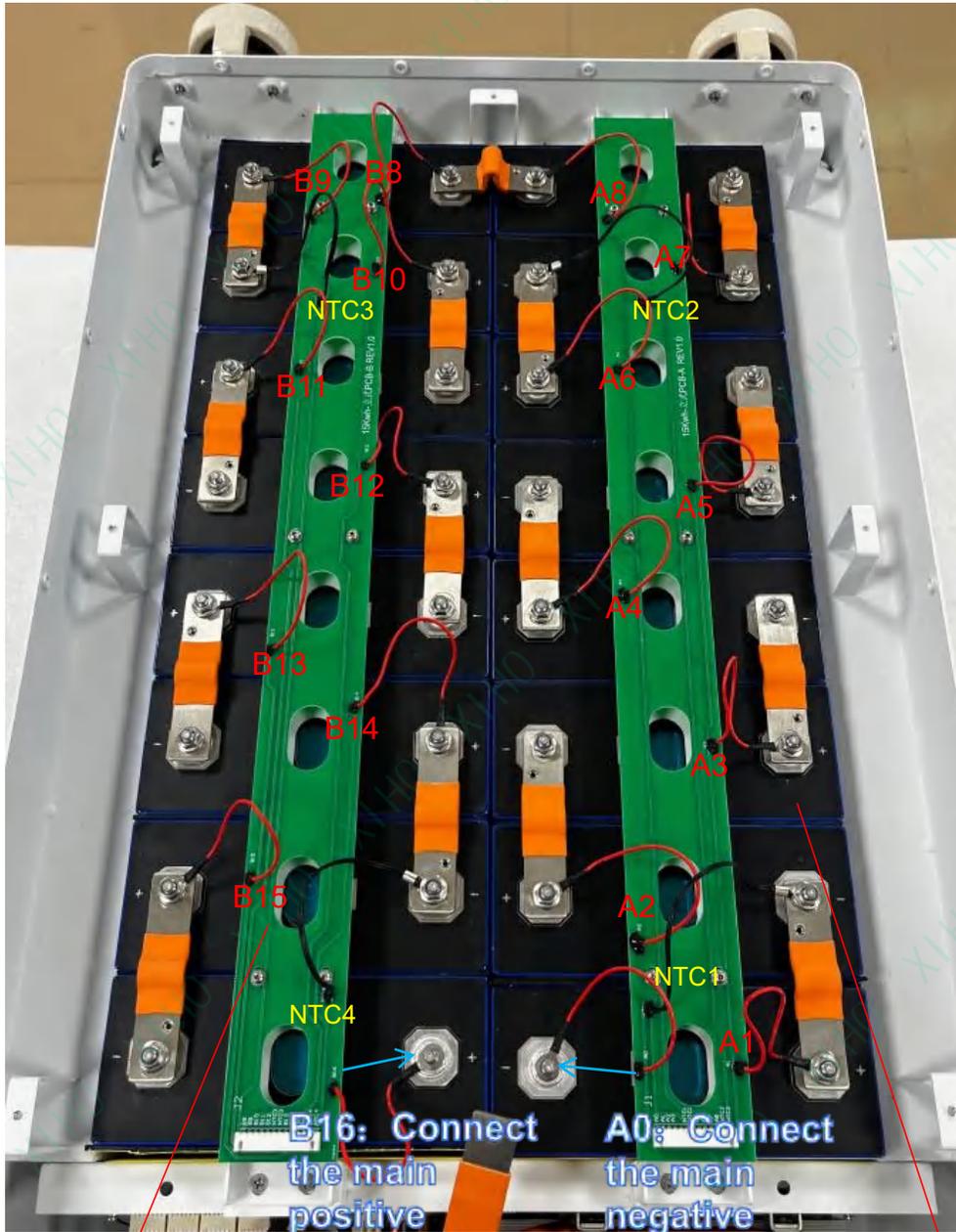


PCB-A(PS-A)
In the right
(In picture direction)

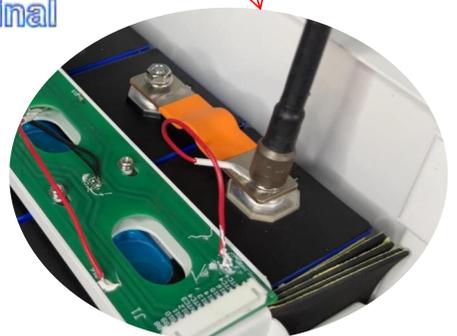


Assembly Steps:

10. Assemble the flexible busbar(G) and PCB bars harness in the sequence shown in the diagram, then torque the screws(H).



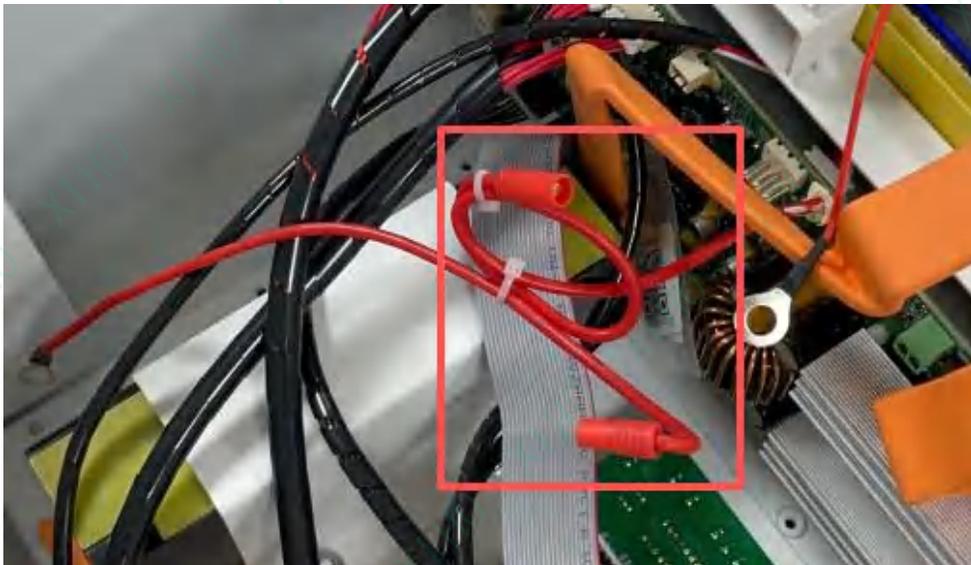
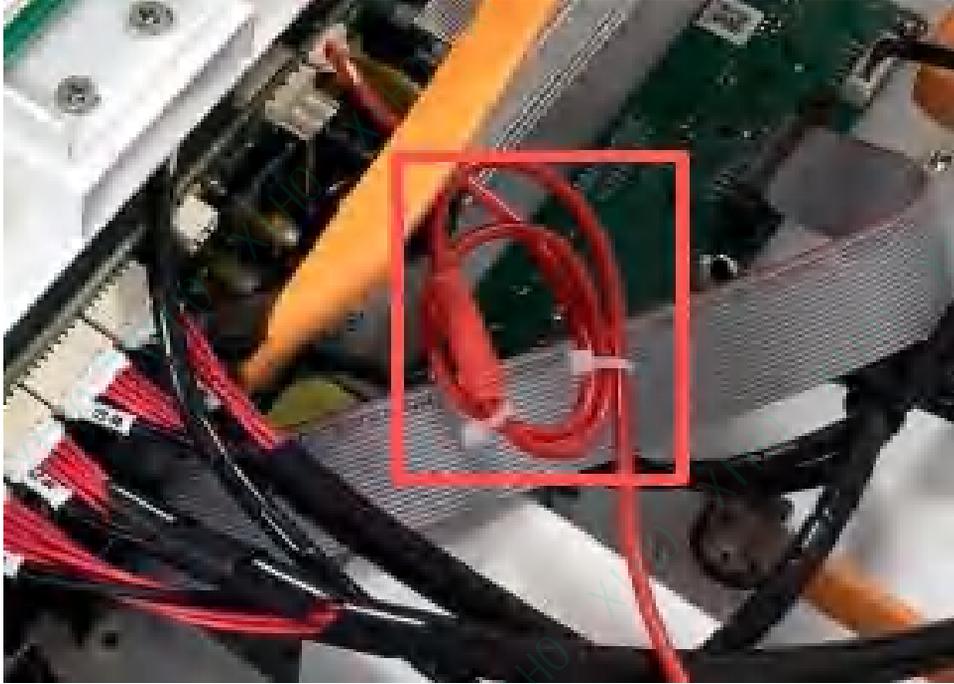
*Pay attention to the component designators on the PCB and their connections to the battery terminals



*Screw up(Torque: 5-6 Nm)

Assembly Steps:

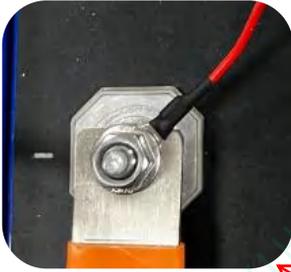
11. **Warning:** Always disconnect the BMS switch wire before connecting the main battery terminals.



Assembly Steps:

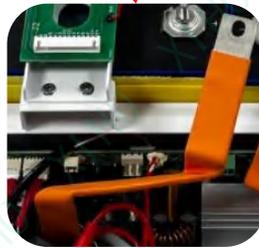
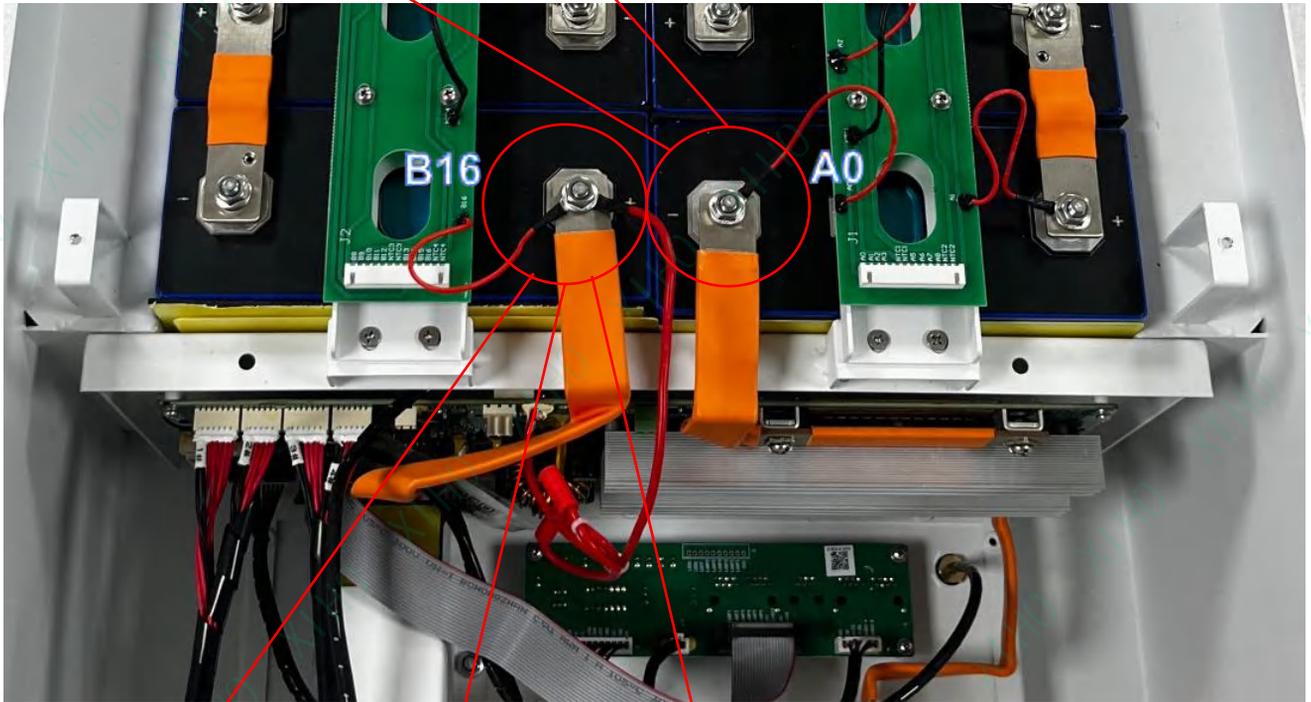
12. Connect the battery pack's main positive and main negative terminals separately, then torque the screws(H).

Warning: When connecting, follow the correct sequence — connect the negative terminal first, then connect the positive terminal.



Note: Connect the negative terminal first

*Connect the B- busbar on the BMS main board to the A0 wire on PCB-A (PS-A) to form the main negative terminal



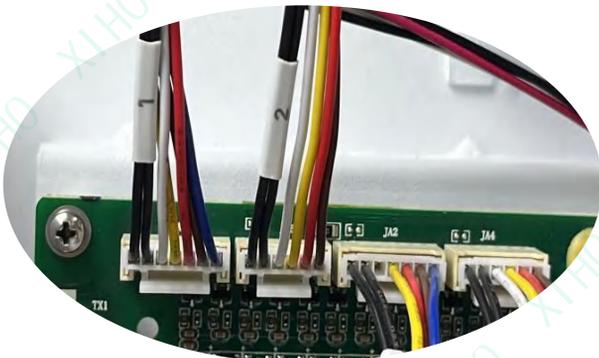
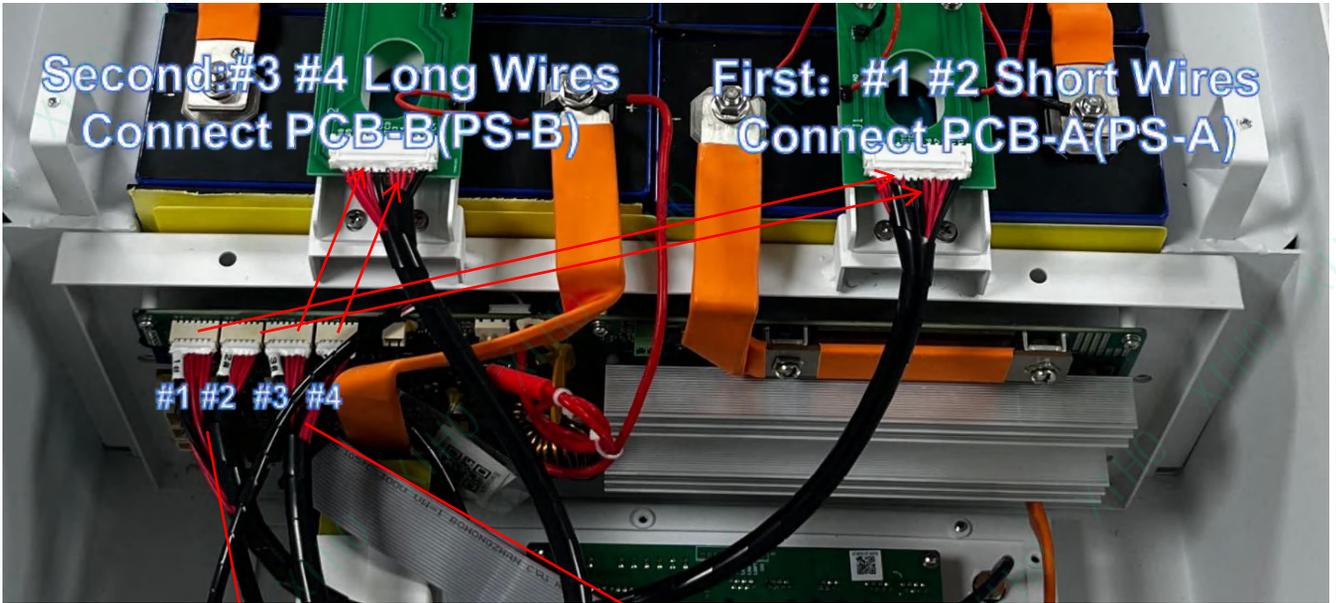
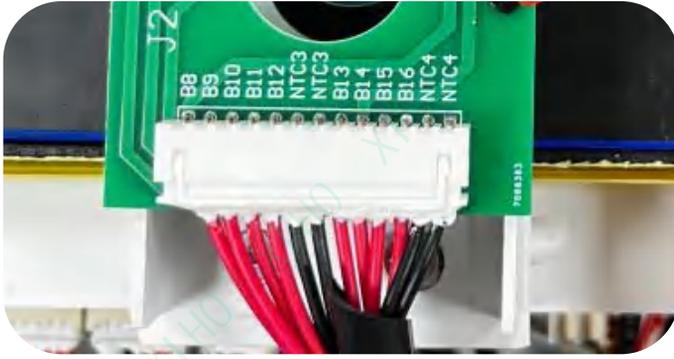
Note: Connect the positive terminal as the second step

*Connect the B+ wire on the BMS mainboard, the B16 Wire on PCB-B (PS-B), and the positive busbar from the back plate to form the main positive terminal

Assembly Steps:

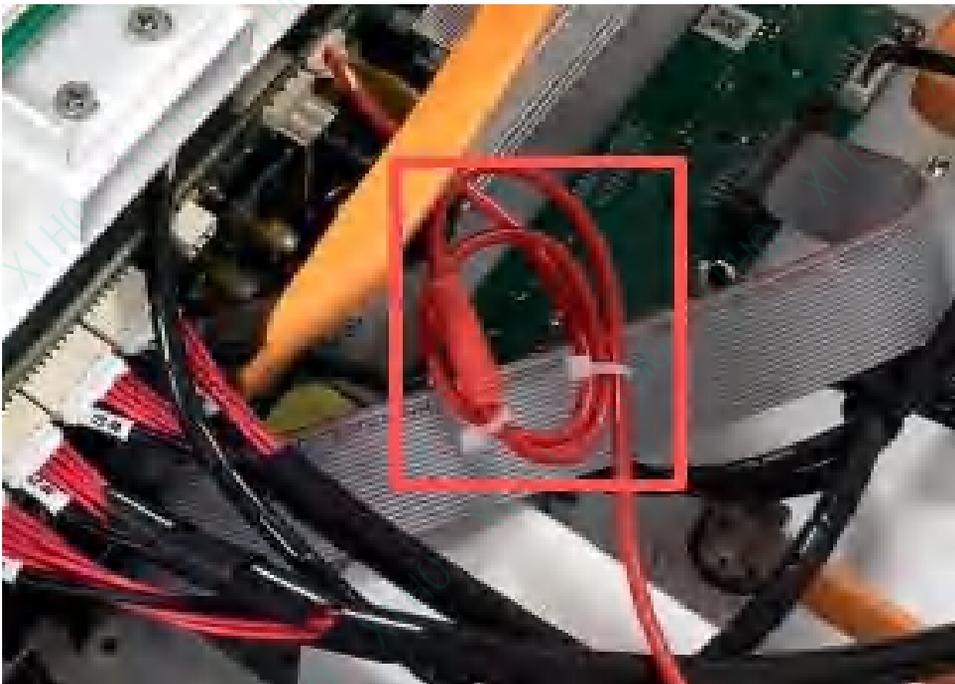
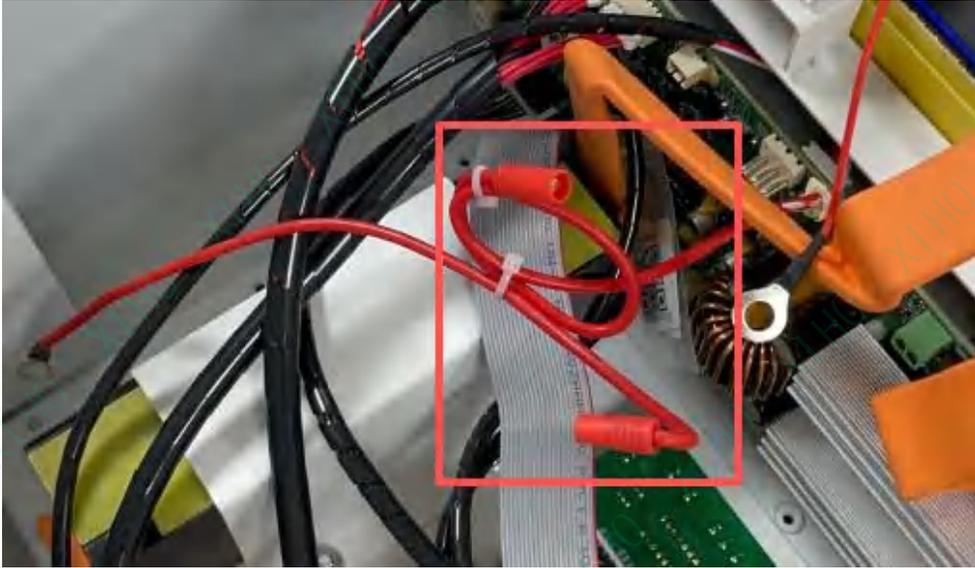
13. Connect the PCB wiring on the BMS mainboard to the PCB board according to the designated wiring sequence numbers (Please Pay attention to the connection sequence, otherwise it may cause a short circuit).

Warning: Connect lines 1 and 2 first, then connect lines 3 and 4. Follow this sequence strictly; otherwise, the BMS may malfunction or fail to operate.



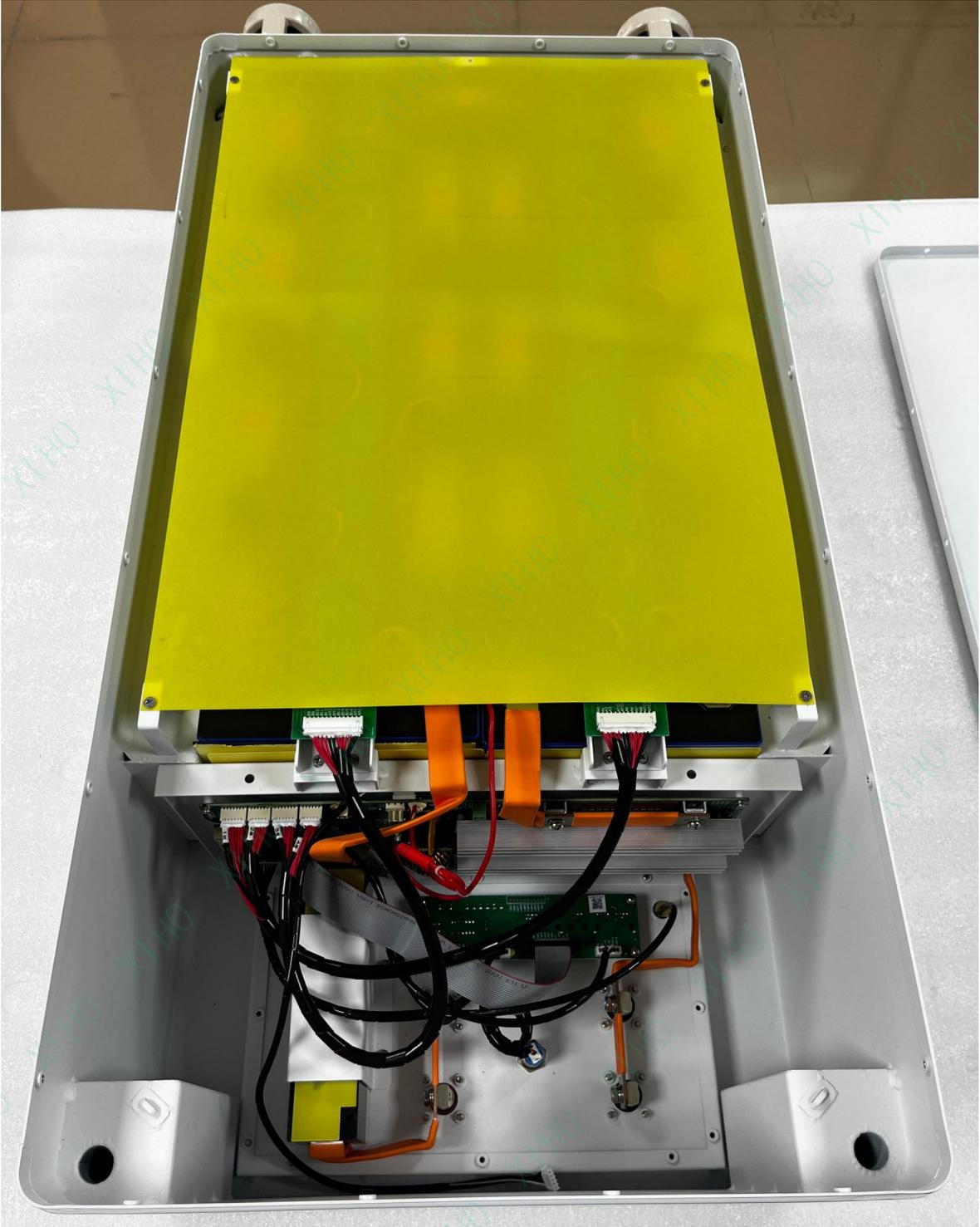
Assembly Steps:

14. After connecting the PCB wiring harness, reconnect the BMS switch wire as shown in the following diagram.



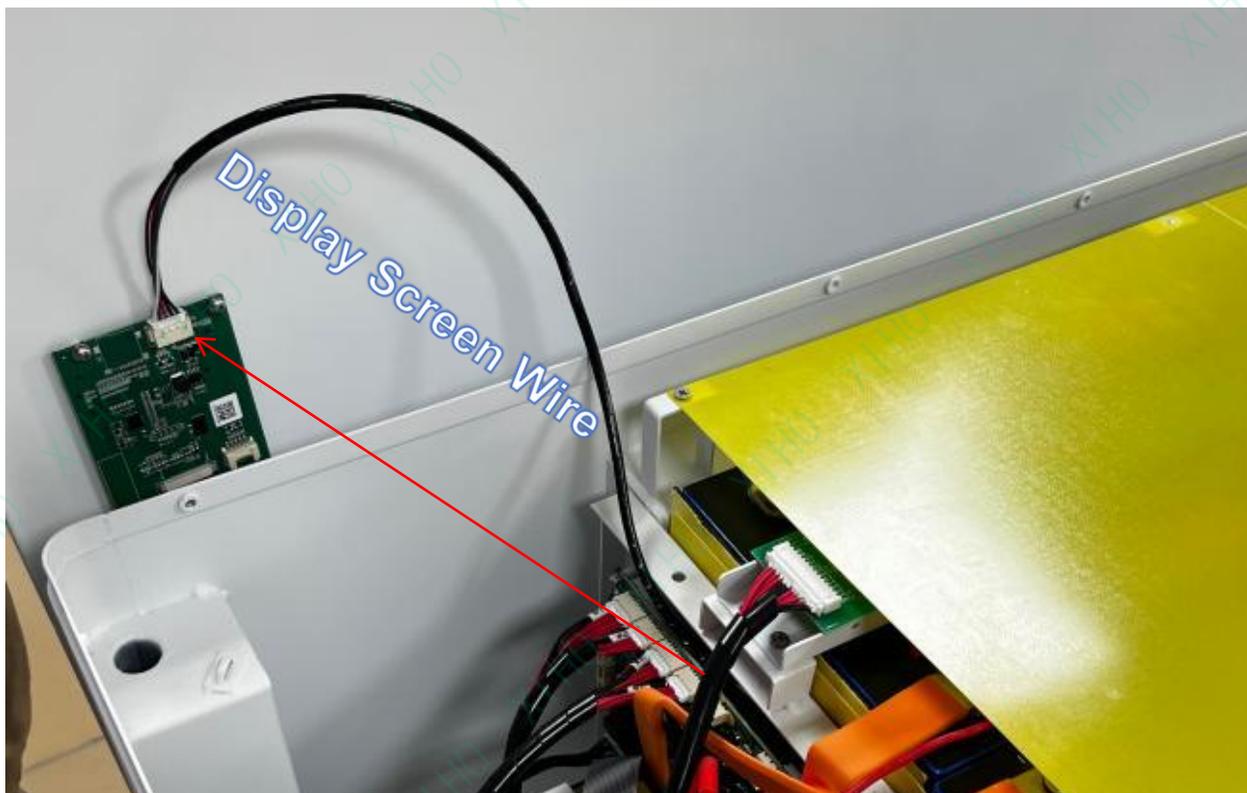
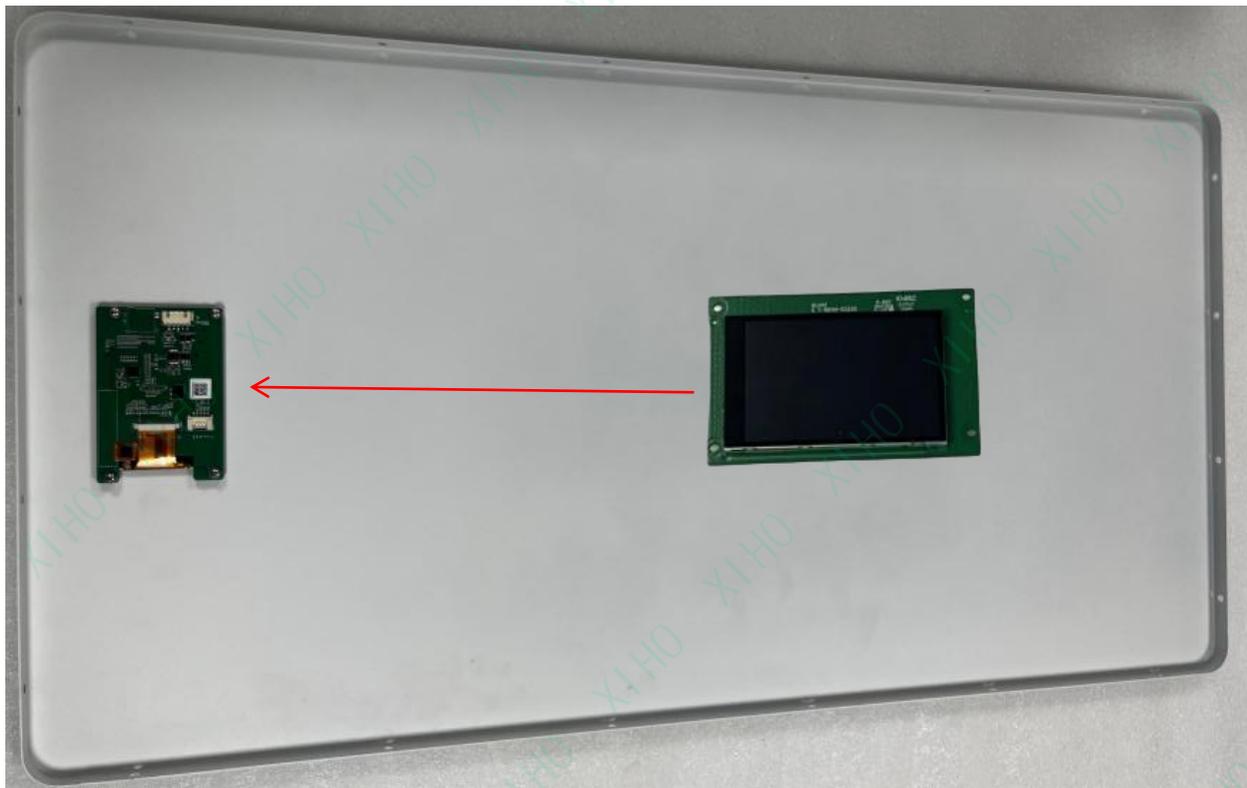
Assembly Steps:

15. Install the epoxy plate and tighten the screws.



Assembly Steps:

16. Install the Display screen onto the cover panel and connect the display screen wire to the BMS mainboard before closing the cover panel.



Assembly Steps:

17. Close the cover panel, secure the screws. Place the battery pack on the ground with the wheels down to prepare for the final step.

Note: Handle with care during placement.



Assembly Steps:

18. Install the antenna to complete the entire DIY assembly.



Battery Pack Operation

1. Pre-Startup Check

1.1 Check that all positive, negative cables, and communication cables are correctly and securely connected.

1.2 Check that the battery installation is firm, convenient for operation and maintenance, and check ventilation.

1.3 Insulate unused ports.

2. Startup

2.1 Turn on the switch on the battery.

2.2 The green RUN LED should illuminate normally (check the LED indicator status).

2.3 If the battery system cannot be started, check that all electrical connections are correct.

2.4 If the electrical connections are correct but the battery system still cannot start, contact our sales personnel within 48 hours.





APP Operation

XIHO battery packs feature integrated Bluetooth and WiFi connectivity, enabling real-time remote monitoring via a dedicated mobile app. Critical operational parameters — including State of Charge (SOC), voltage, operating current, temperature, and system diagnostics — are transmitted wirelessly. All data is visualized through an intuitive app interface.

Please note: WiFi functionality may not be included in some product models. Specifications are subject to the actual delivered product.



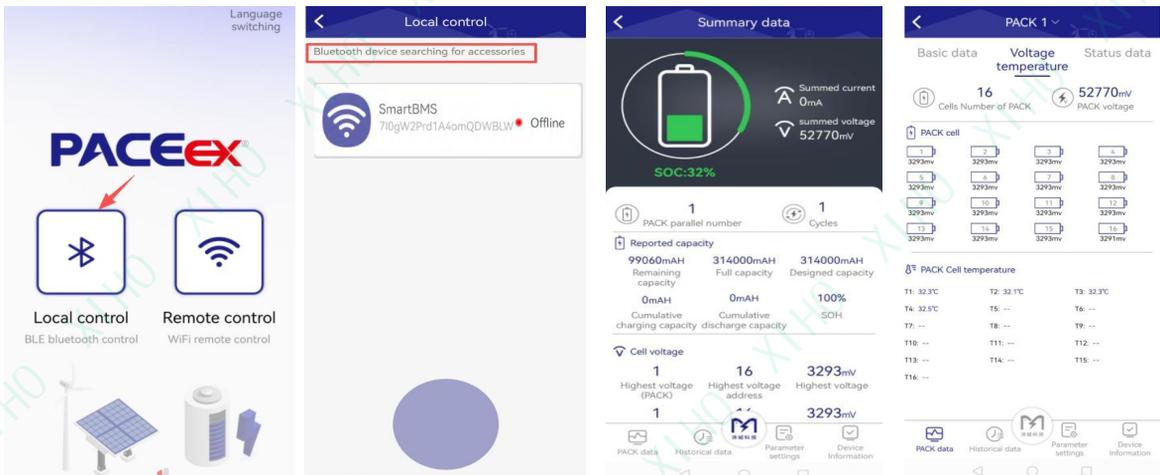
Apple: PACEEX BMS -
Download from
Apple App Store



Android: PACEEX -
Download from
Google Play Store

1. Bluetooth Connection

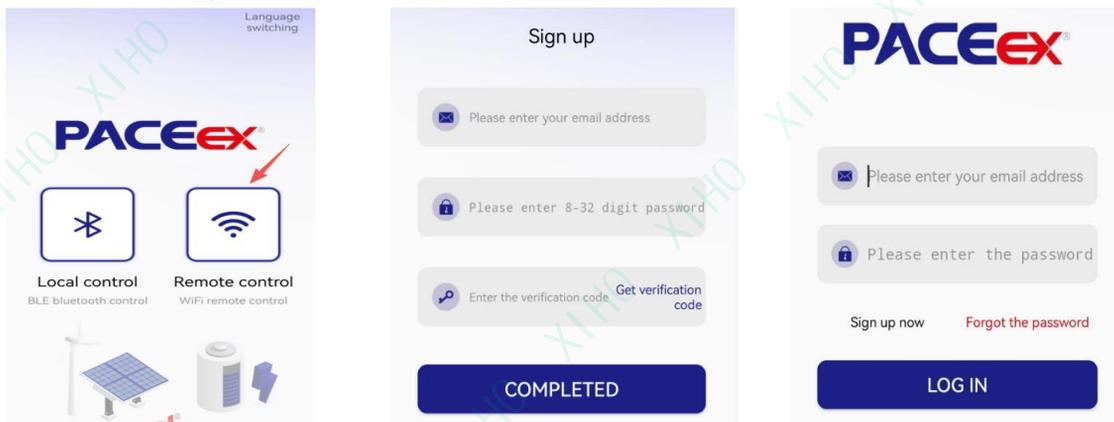
- 1.1 Taking an Android phone as an example, turn on the phone's Bluetooth;
- 1.2 Directly search for nearby Bluetooth signals, connect one-to-one, control devices — no account login required, no binding records, ready for immediate use;
- 2.3 Monitoring interface displays: SOC/Voltage/Current/Temperature.



2. WiFi Remote Control

WiFi communication enables remote device control across geographically separated locations. This requires account registration/login, device binding records, and network provisioning operations.

- 2.1 Account Register & Login: Create account via email + password + verification code, Select actual country/region during registration. All devices added under this account will connect to corresponding regional servers. Use registered email and password. Password Reset: Via email verification;



2.2 WiFi Module Factory Reset

Press RST button on module baseboard for 5-10 seconds;

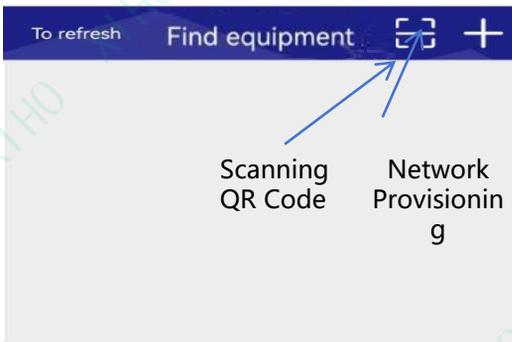
LED status(LED状态): Double flash: Factory reset done, BLE discoverable

Slow flash: Connecting to router

Rapid flash: Router connected, linking to cloud server

Steady on: Server connection established

2.3 Device Search: Tap "Add" or "+" icon, Note: This step requires enabling "Bluetooth", "Location Services", and "WiFi" on the mobile phone; otherwise, network provisioning cannot be completed;



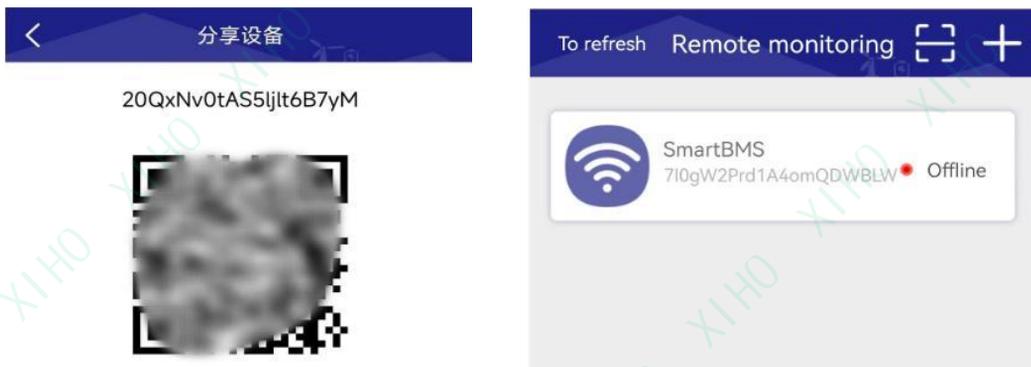
2.4 Network Configuration Input: ① Tap discovered device; ② Enter target WiFi SSID and password; ③ Tap "Next" to start provisioning; **Note: Phone must connect to the same 2.4GHz WiFi; Module only supports 2.4GHz networks.**



2.5 When provisioning completes, the system will redirect to this page. Tap "Save" to successfully add the device and automatically return to the device list; If provisioning fails, follow the APP prompt messages, check and restart from step b). If repeated failures occur, save this error screen and contact us.



2.6 Device Sharing: Long press the device item. As the device administrator (account bound during initial provisioning), you can generate a QR code for this device, allowing other users to add it by scanning. Note: Non-administrators cannot reshare. Each generated QR code supports only one-time scanning and is valid for scanning within 30 minutes.



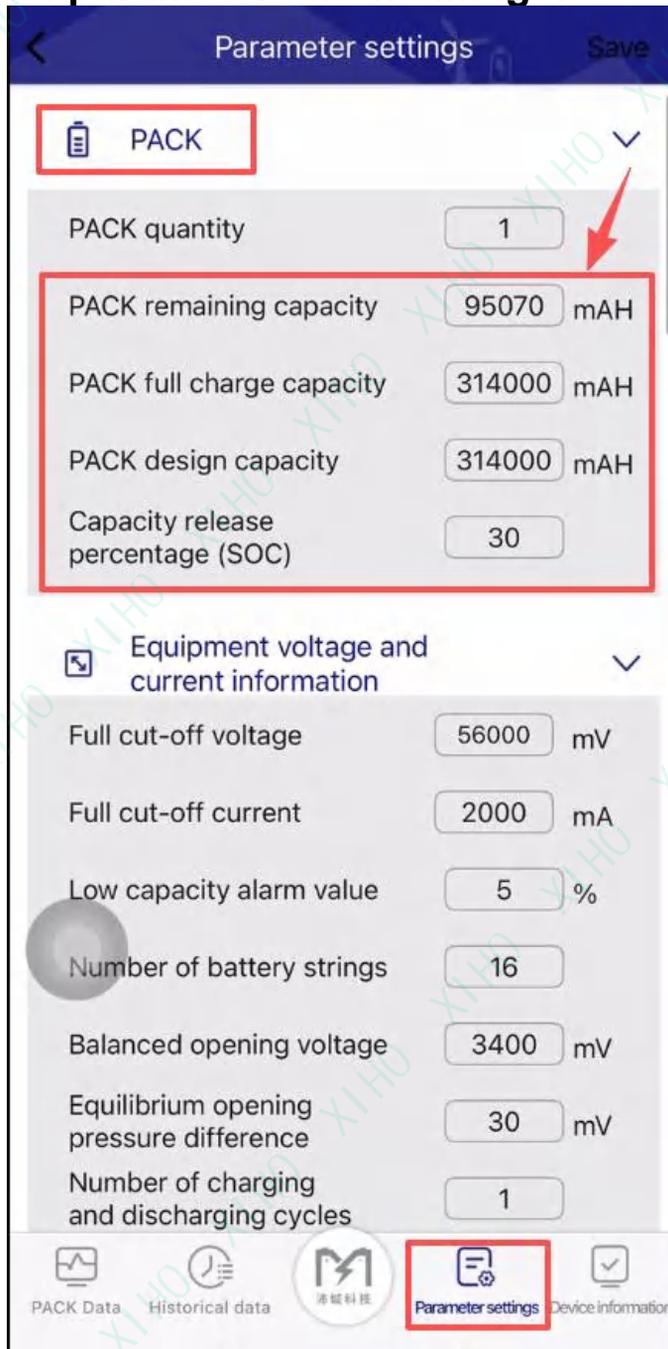
Note:

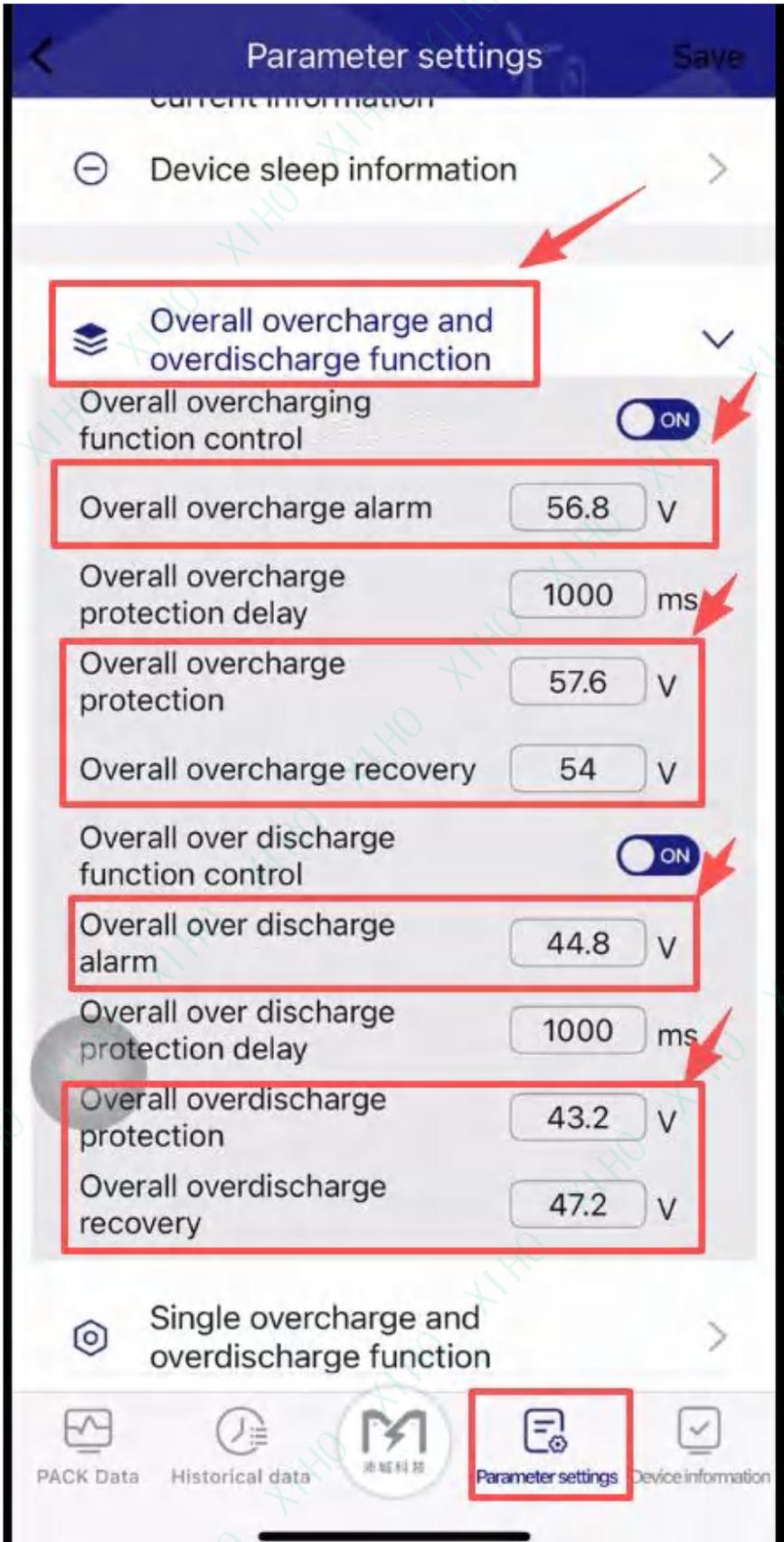
- ①. Default password "bms12580", Administrator password "4321". If encountering password errors, contact sales personnel promptly to resolve.
- ②. If you select a battery to connect to and the app does not confirm the connection, it may be because another device is already connected to that battery. Only one device can be connected to the battery at a time.

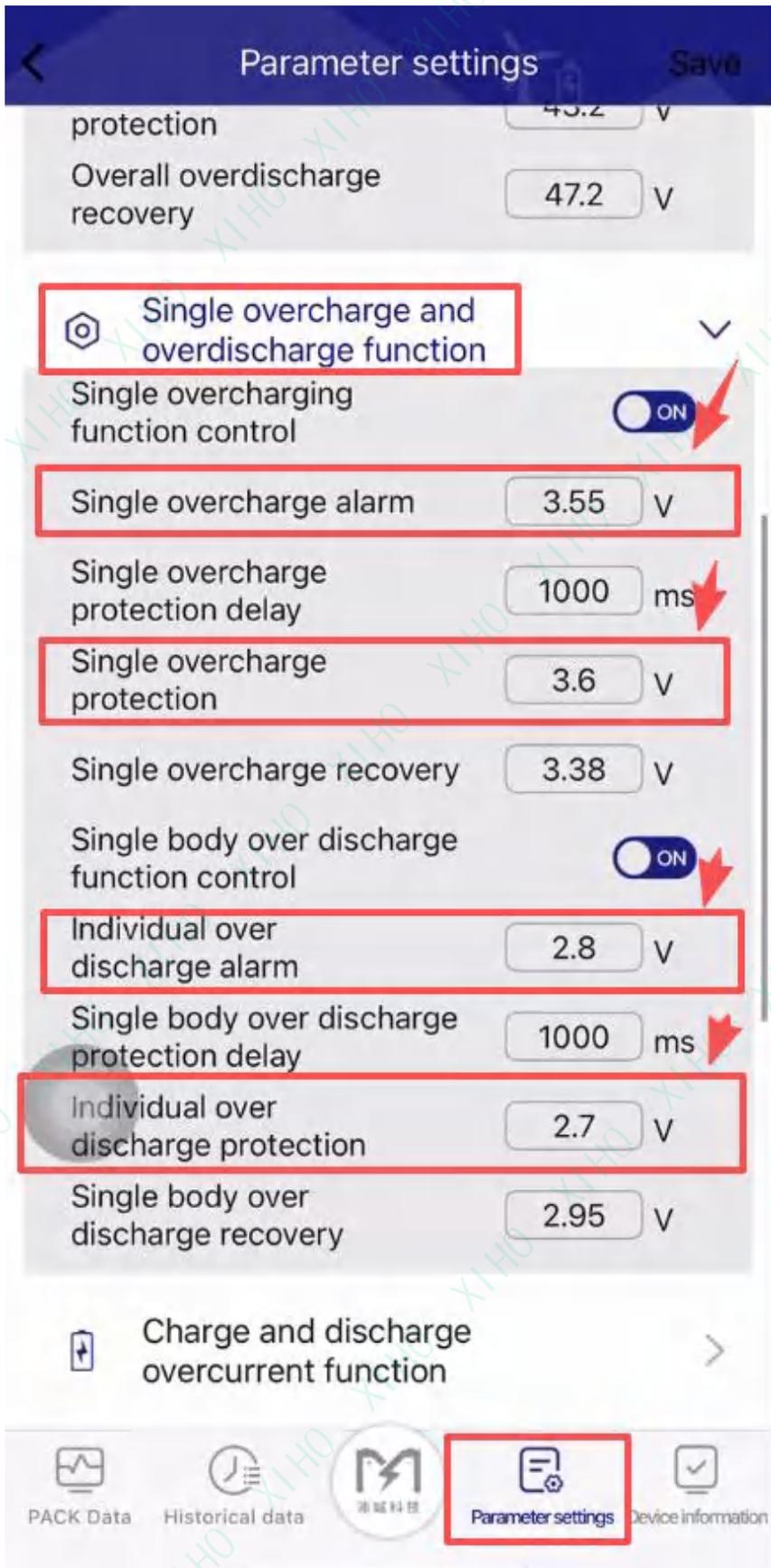
Battery Pack Parameter Settings

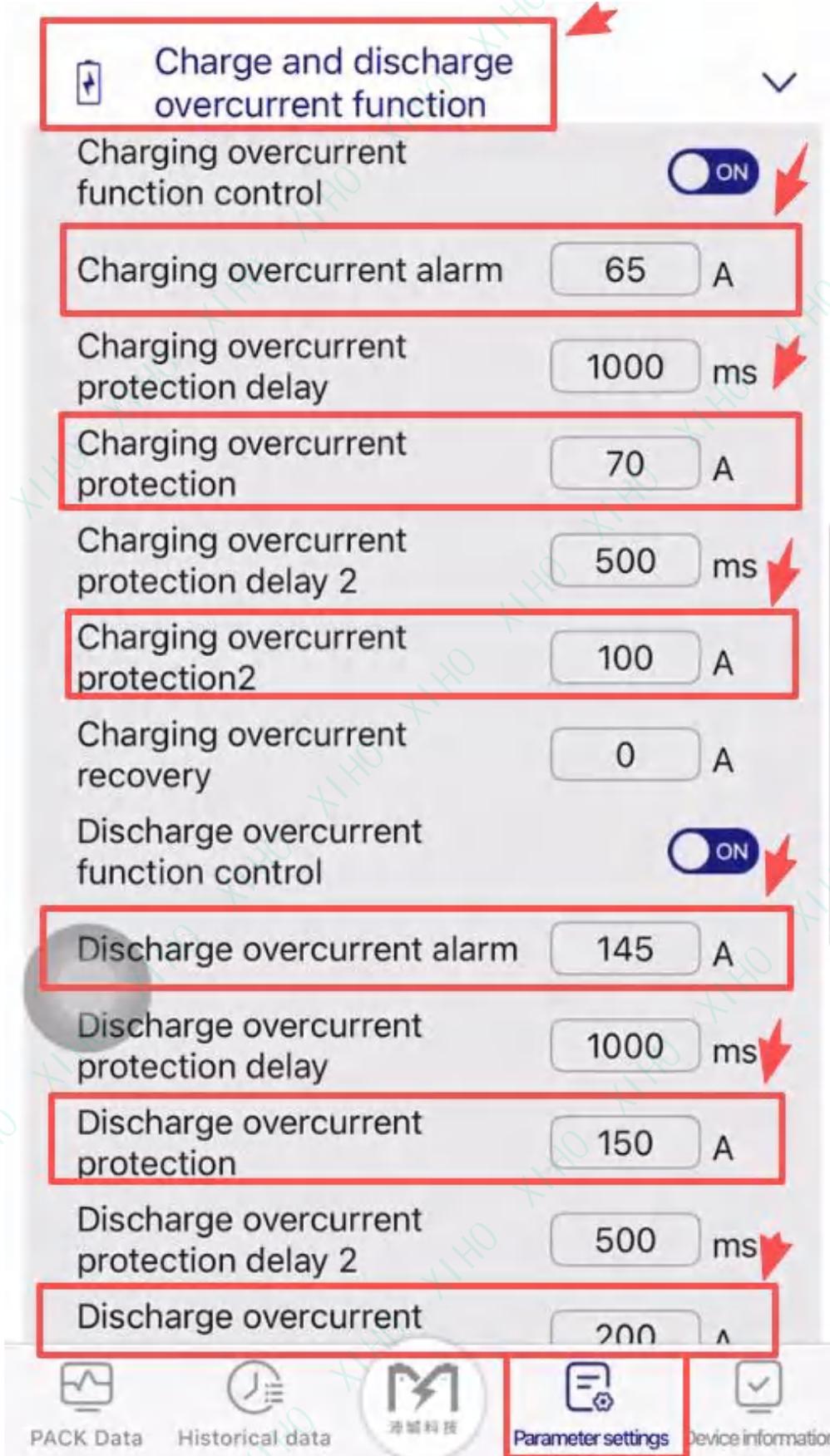
After connecting your phone to Bluetooth and entering the PACE APP it is recommended to set the battery pack parameters as follows. Of course, you may also customize the battery pack settings as long as safety is ensured.

Taking the 314AH battery cell as an example, the content marked with the red frame needs to be modified to match the suggested parameters in the image.









Charge and discharge overcurrent function

Charging overcurrent function control ON

Charging overcurrent alarm 65 A

Charging overcurrent protection delay 1000 ms

Charging overcurrent protection 70 A

Charging overcurrent protection delay 2 500 ms

Charging overcurrent protection2 100 A

Charging overcurrent recovery 0 A

Discharge overcurrent function control ON

Discharge overcurrent alarm 145 A

Discharge overcurrent protection delay 1000 ms

Discharge overcurrent protection 150 A

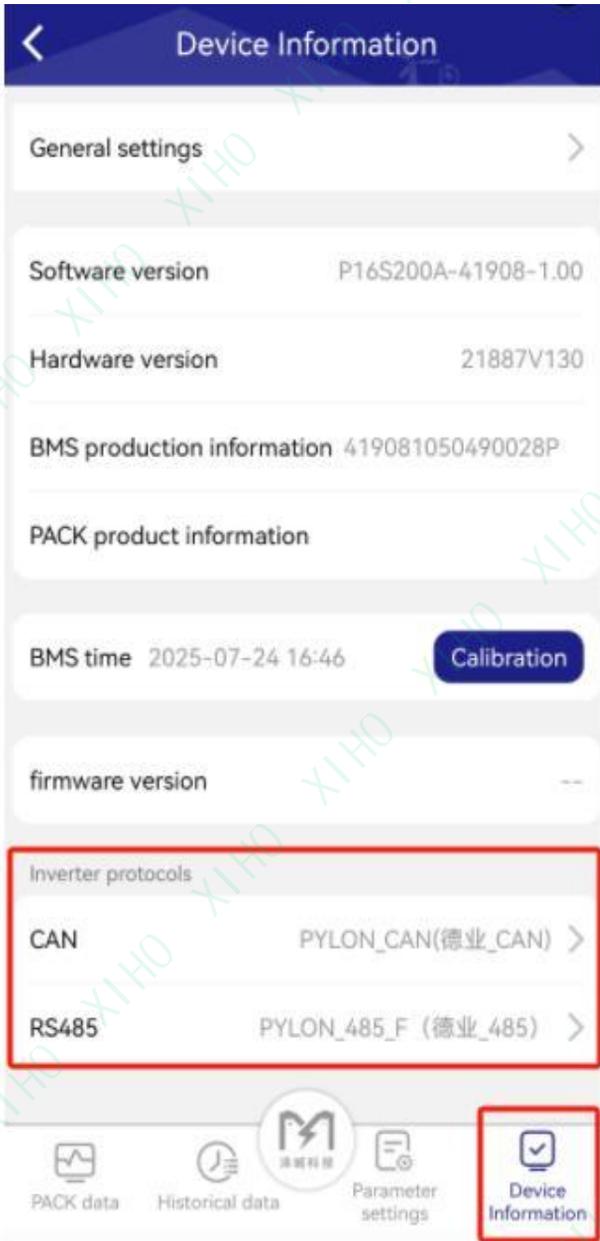
Discharge overcurrent protection delay 2 500 ms

Discharge overcurrent 200 A

PACK Data Historical data **Parameter settings** Device information

Communication Protocol Switching

1. First connect to the Bluetooth APP and complete pairing;
2. Select Protocol - Set Successfully - Restart Battery Pack - Setup Complete.



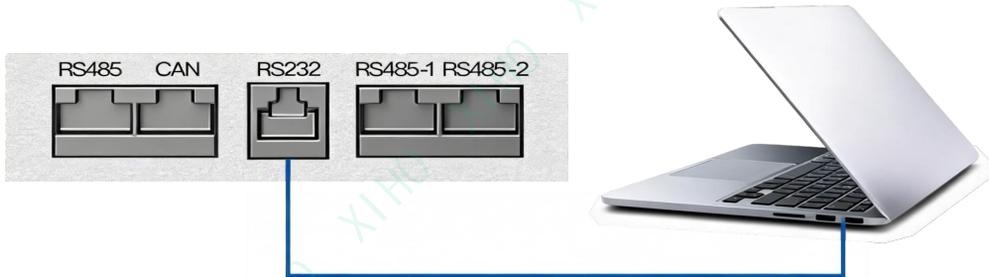
Operation of Upper System

XIHO battery packs support connection to PC software for monitoring battery status and modifying communication protocols. Please contact our sales representative or visit our website to obtain the PC software.

1. Login

- 1.1 Connect the PC software communication cable to the RS232 port on the battery, then to the USB port on the laptop;
- 1.2 Download and open the PC software;
- 1.3 Modify language, battery status updates automatically.

Note: Default password "123456", Administrator password" 4321" .If connection to the PC software fails, check that all connections are correct. If the connections are correct but the PC software still does not function, contact our sales service department.



BmsLVToolsV2.07

RealTimeMonitor ParallerMonitor SaveRecord ExportRecord ParamSetting SystemSetting Setting Tools LanguageSetting

BatteryInfo

TotalVoltage:	52.77	V
Current	0	A
SOC	89	%
SOH	100	%
RemainCap...	280000	mAh
FullCapacity	314000	mAh
CycleTimes	0	
AllRemainC:	0	mAh
AllFullC:	0	mAh

CurrentPACK

PACK: 1 Host: 1

Serial: COM5 Adr: 1

CloseSerial StopMonitor Poll

Temperatures

Title	Temperature(°C)
TCell1	32.3
TCell2	32.1
TCell3	32.3
TCell4	32.5
MOS_T	32.6
ENV_T	36.1

SystemStatus(Only read)

CHGMOS DSGMOS

CHGCurValid Heating

DSGCurValid LimitCurrent

ACin Fully

WarningStatus

None

ProtectStatus

None

MalfunctionStatus

None

SingleBatteryVoltages

Number	Voltage(mV)	Balanced
1	3293	
2	3293	
3	3293	
4	3293	
5	3293	
6	3293	
7	3293	
8	3293	
9	3293	
10	3293	
11	3293	
12	3293	
13	3293	
14	3293	
15	3293	
16	3291	

MaxVolt: 3293 mV VoltDiff: 2 mV

MinVolt: 3291 mV TempDiff: 0.4 °C

SwitchControl

CHG ON DSG ON

LED ON Alarm OFF

SysLock OFF Limit ON

ForcedSleep

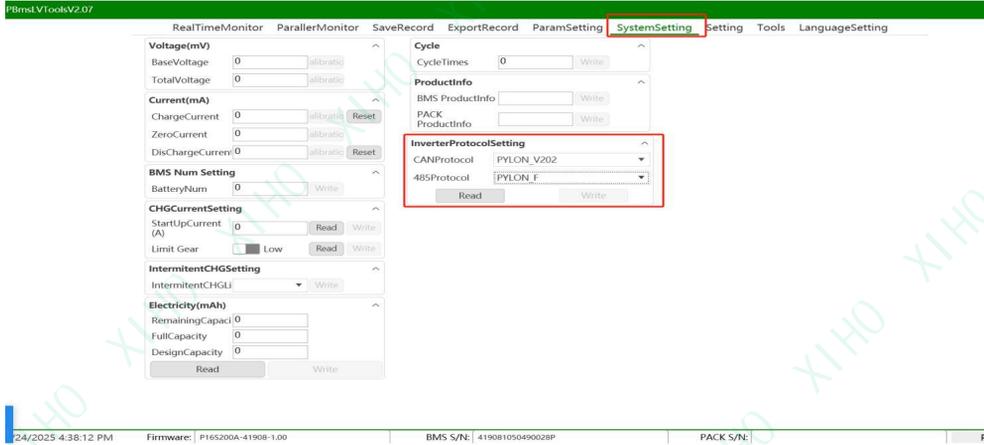
PACEex 沛城

Password

24/2025 4:36:31 PM Firmware: P165200A-41908-1.00 BMS S/N: 419081050490028P PACK S/N: Running

2. Switching Communication Protocol via PC

System Settings - Inverter Protocol Settings - Read - Select Protocol - Write
- Setup Complete



Communication Compatibility List

No.	Brand Name	LOGO	Communication
1	DEYE		CAN/RS485
2	PYLON TECH		CAN/RS485
3	LUXPOWER		CAN/RS485
4	SE		CAN/RS485
5	GOODWE		CAN
6	VICTRON		CAN
7	SMA		CAN
8	SORODOO		CAN
9	STUDER		CAN
10	MUST		CAN
11	SOLIS		CAN
12	SENERGY		CAN
13	GROWATT		RS485
14	VOLTRON		RS485
15	SRNE		RS485

Connection

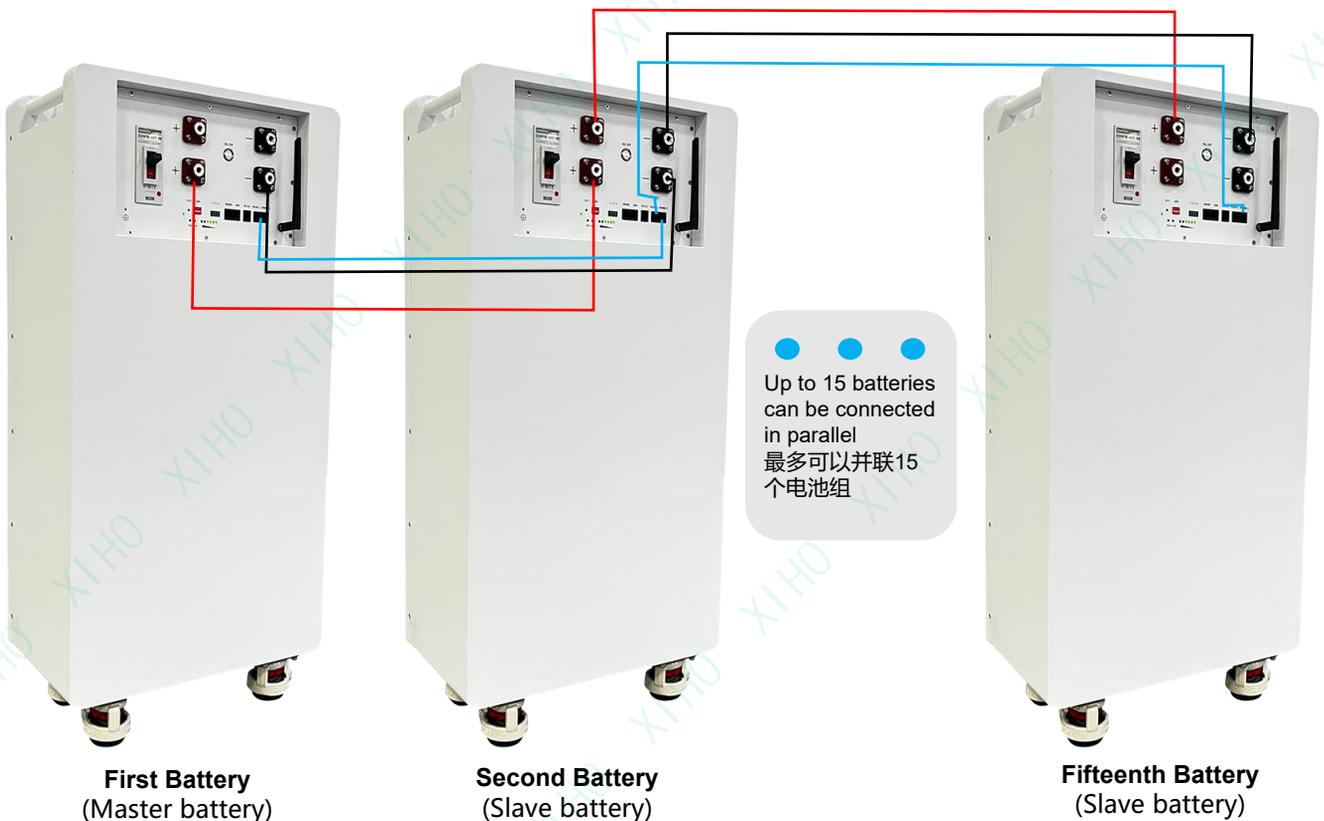
1. Battery Pack In Parallel (Supports up to 15 battery packs in parallel, see picture example)

1.1 Use a multimeter to measure whether the positive and negative cable connections are conductive, and check if the connections are loose.

1.2 Before wiring, turn off the battery switch to ensure no DC output from the battery.

1.3 First lock the parallel cable to the positive terminal of the battery pack, then connect the other end to the negative terminal (forming a ring connection between batteries).

1.4 Connect the parallel communication cable to the RS485 port of the battery pack (must be connected between different ports, e.g.: Master battery's RS485-1 connects to Slave battery's RS485-2, and the like).



Parallel Example ▲

2. Battery Pack and Inverter Connection

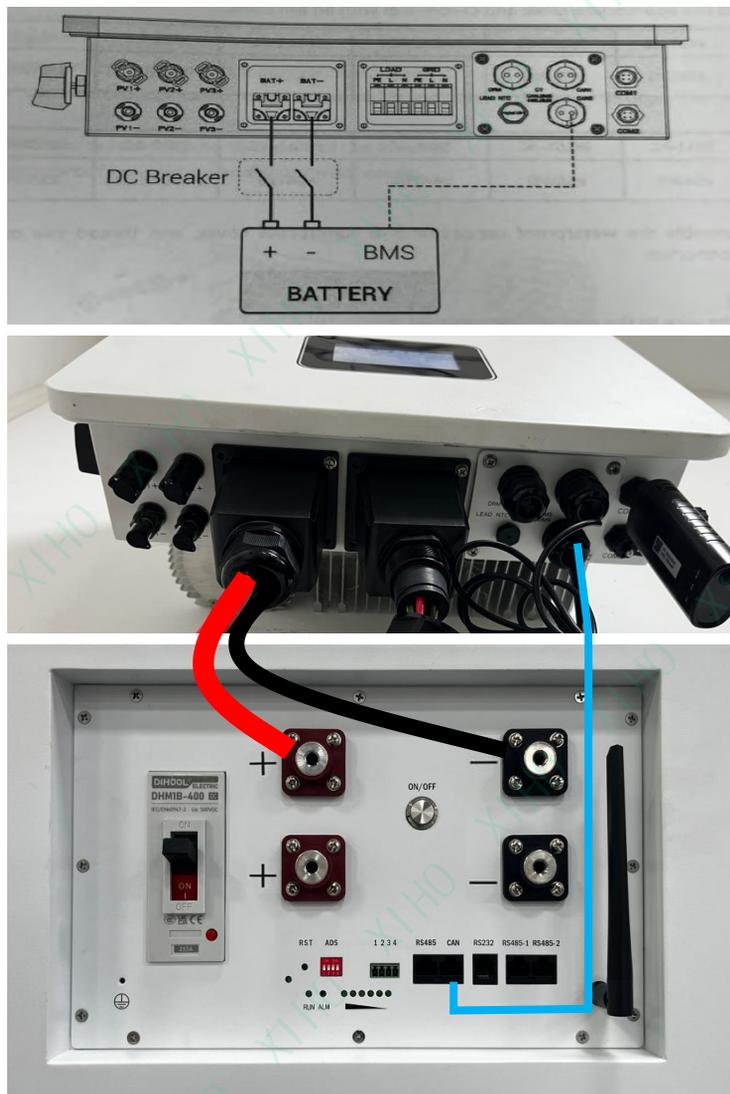
2.1 Use a multimeter to measure whether the positive and negative cable connections are conductive, and check if the connections are loose.

2.2 Before wiring, turn off the battery switch to ensure no DC output from the battery.

2.3 Connect the battery and the inverter's positive terminals with a red power cable, then connect the negative terminals at both ends with a black power cable.

2.4 Connect the battery's communication port (RS485 or CAN) to the inverter's BMS port using a communication cable. The BMS port definitions for different inverter brands may vary; please consult the inverter manual.

Taking Megarevo 6KL1D-G2 as an example:



Warning:

Make battery pack must get all cells balanced before assembly.If there happens NOT know how to assembled or wrong assembly is not accepted refund.Professionals will detected voltage/resistance/appearance and other issues before every shipment,we can only ensure that the single battery cell is good,when arrival you can test the cells within 15 days after that means batteries have no problem,does not provide return nor refund.**If you found problems you can contact us for return or refund.**Battery can only be unused (the electrode intact,no welding,no wear,the appearance good)to provide return.Any return-behavior buyers need to be responsible for shipping fee.

1).Warranty period:

1 years(from the date of successful delivery)if the single battery capacity less than 80% initial capacity,take the test pictures or video to us,we willreplace it or give satisfied solution.

2).If any miss or damaged for the shipping.Please contact us firstly,then send us the picture or video to check.In case of loss of cargo or the battery is damaged and can not be used or there is a greater risk of use,we wil communicate with buyer if resend it or replace it or refund the product cost.If buyer send back the cells to seller,buyer should pay for the shipping cost.

3).These situations not provide return nor refund

①After the assembly or assembly process happen any problem,such as the protection board connected to the wrong wire burned lead to battery damage,charger failure,the assembly error or unbalanced assembly,etc.

②For damage caused,such as battery bulge/welded,battery pack without protection BMS caused by charging.

Storage

1. The external terminals of the battery pack should be insulated.
2. If the battery pack needs to be stored idle for a long time, it is recommended to charge it to 30%-60% capacity. Storage in a fully discharged state is strictly prohibited.
3. Batteries stored for more than 3 months need to be supplementary charged for 2-3 hours with a current of 0.2C~0.3C.
3. Batteries should be stored in a dry, clean, ventilated, non-corrosive gas environment, away from fire sources and direct sunlight.
4. Long-term storage in high-temperature environments exceeding 60°C is prohibited, as this will lead to performance degradation and shortened lifespan.

Notes

1. Temperature Management: Strictly prohibit exposure to high temperatures (>45°C). Storage temperature must be maintained between 10-45°C.
2. Hazard Avoidance: Keep away from fire sources/strong magnetic fields/strong static electricity. Only use dedicated chargers.
3. Abnormal Handling: If electrolyte enters eyes, immediately rinse with clean water and seek medical attention. If overheating or deformation occurs, stop using immediately and remove the battery.
4. Maintenance Specifications: Maintain storage capacity at 30%-60%. Batteries unused for three months must be recharged.
5. Safety Check: Verify voltage and connector status before use.
6. Disposal & Recycling: Waste batteries must only be handed over to suppliers or designated collection points.

Green Energy

Change Lives

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