

APEX **DIY** 280 BOX

Battery Pack Assembling Instructions

Stackable 51.2V (JK BMS)



Please refer to the corresponding installation video to read.

WARNING



This product is compatible with below cells:

3.2V 280Ah/302Ah/304Ah/306Ah/314Ah LiFePO4

Please check if cells are fully matched before installation.

Follow instructions strictly for battery placement.

The battery cannot be connected to the same pole during installation.

-pexium
-pexium

P+

P+

RESET AIR
AIR RUN
COM COM 2
CAPACITY
B2401 CAN
B232
B2402-2 B24032



Tear off the back adhesive of the heat insulation plate and paste it on the inner wall of the box.*2 on the bottom, *4 on the sides, and *4 on the front and back.



Place the battery cells in order, paying attention to the order of placement (reverse connection will cause battery short circuit). Place a sponge plate between each battery cell.

Warning:
Please install it in strict accordance
with the installation specification diagram.

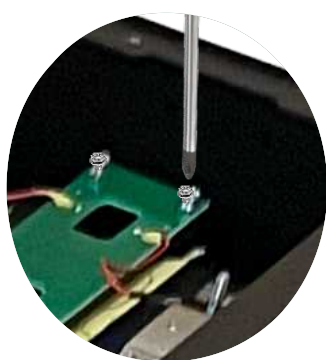


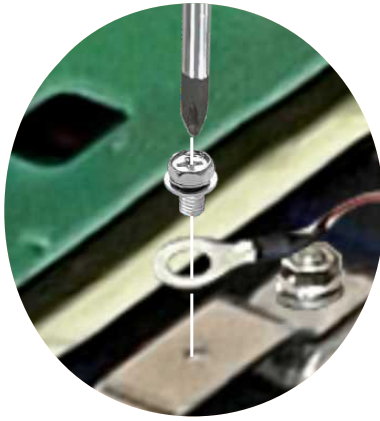
Tighten the baffle of the battery compartment until it is fixed.



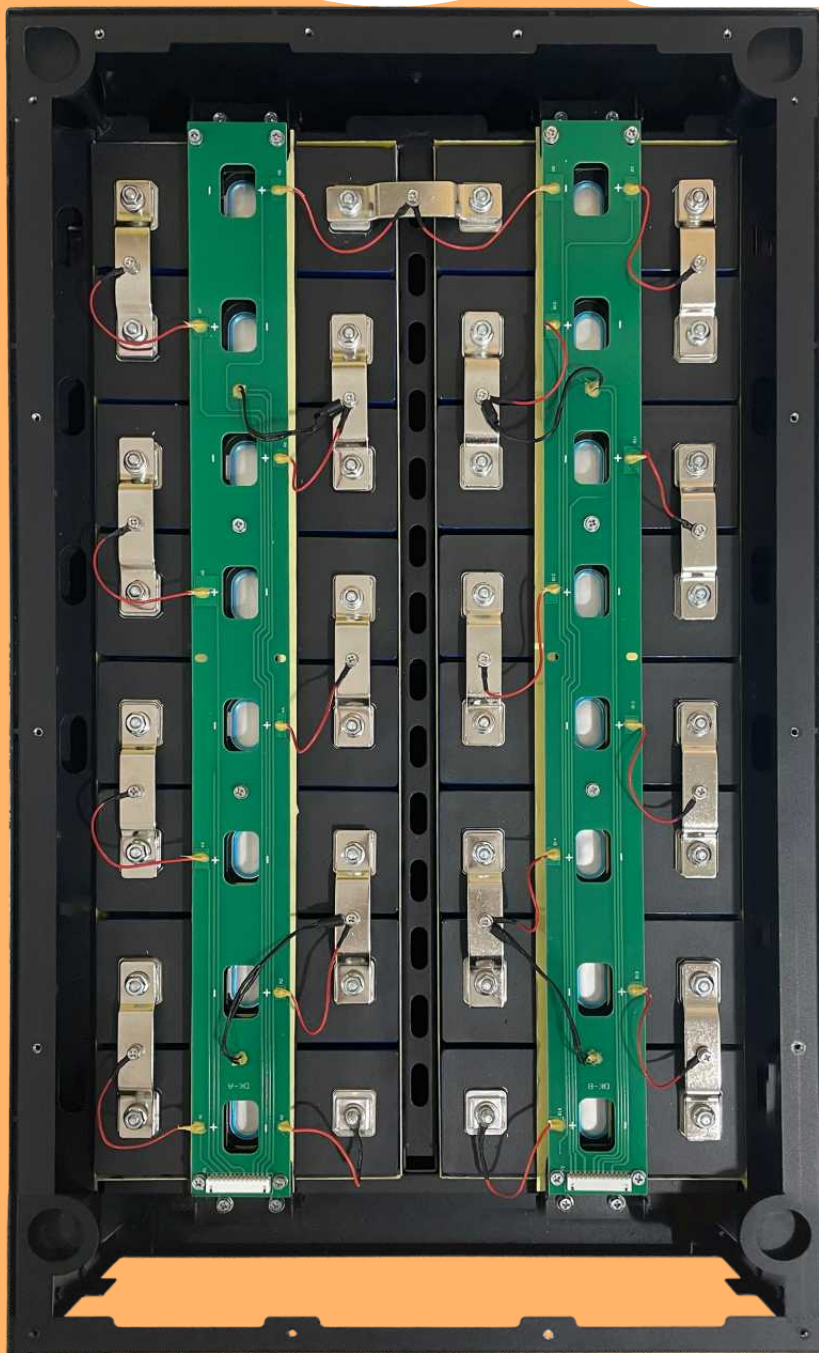


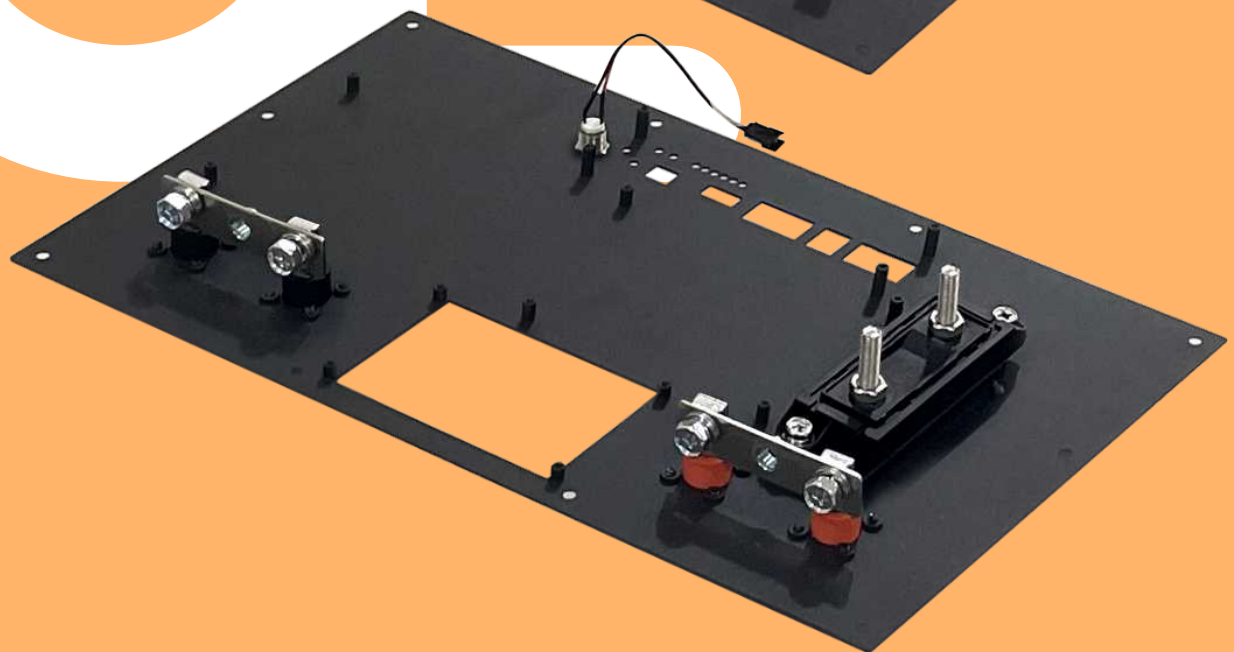
Install the collection board of the battery pack on the bracket of the battery compartment, and then fix the bracket above the battery compartment.

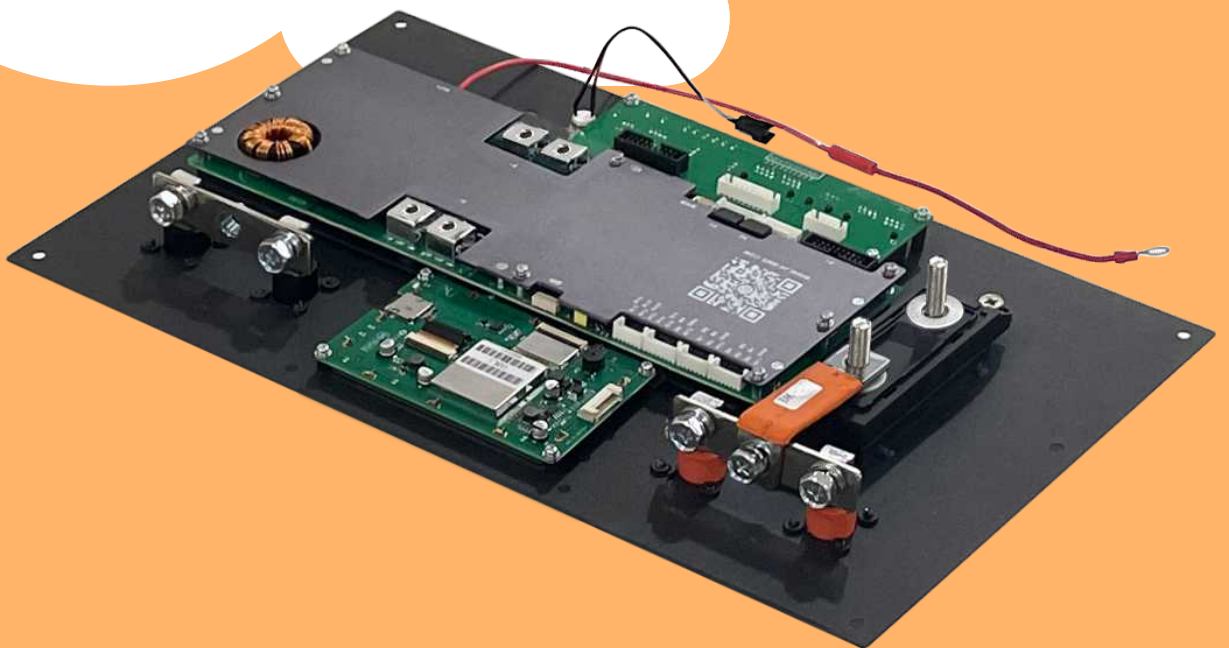
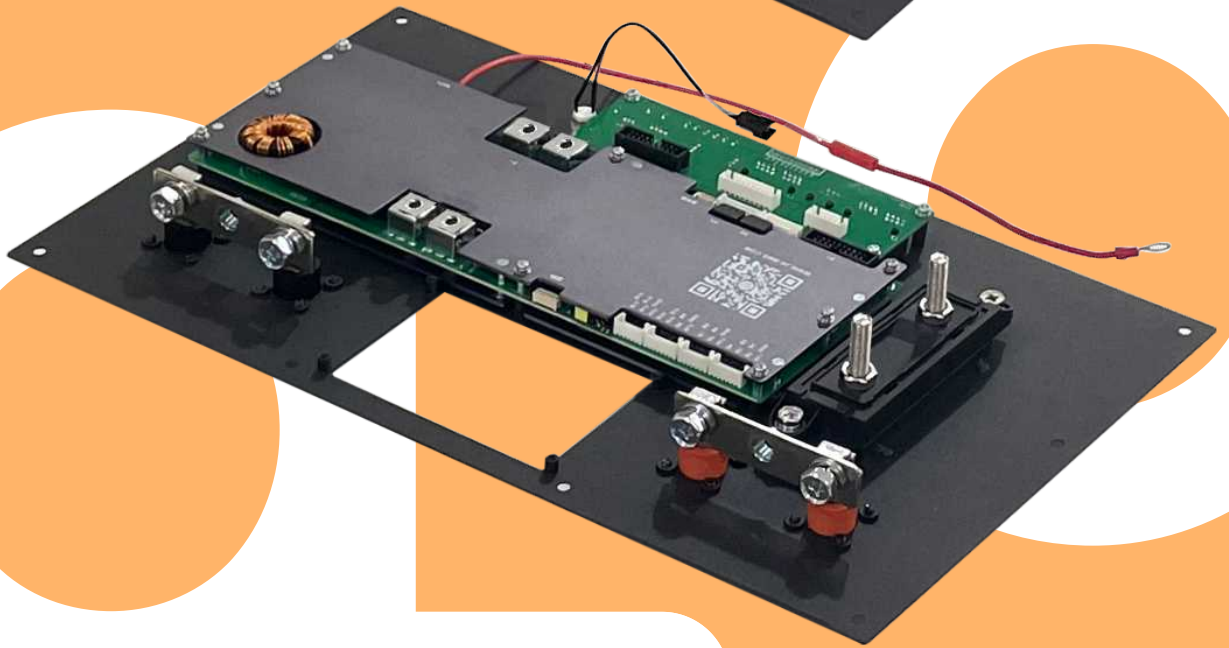
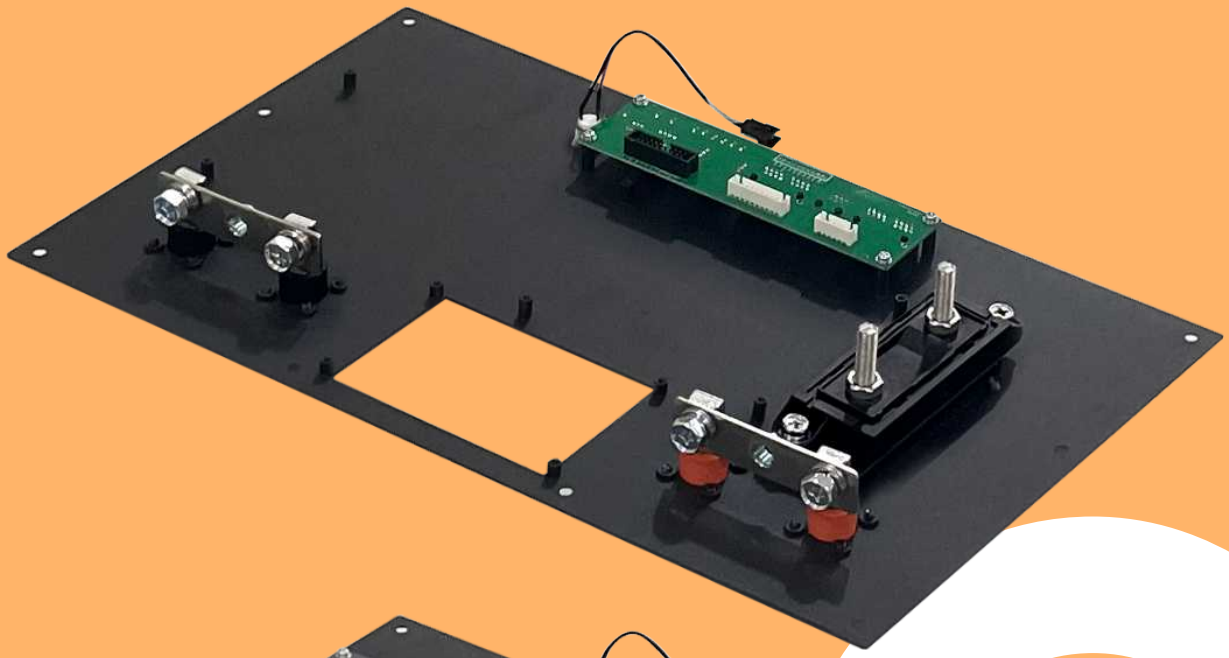


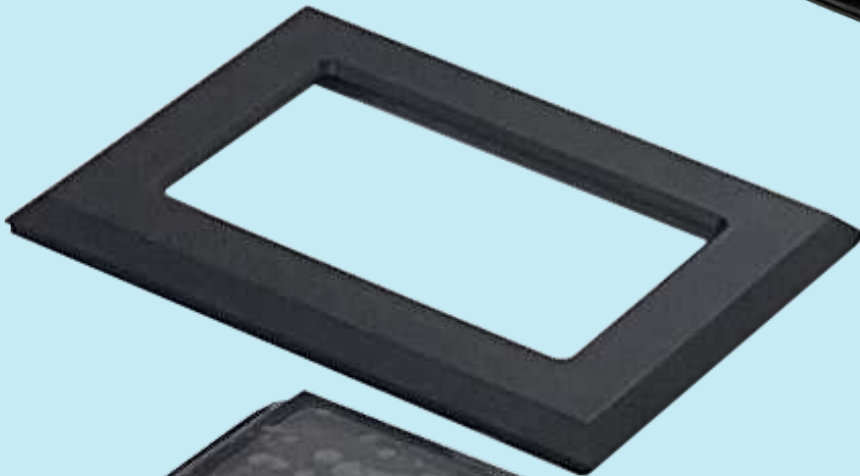


Place a gasket on each battery terminal, then place the connecting piece, and screw on the nut (recommended 7 Nm). Connect the wire of the collection board to the middle screw hole of each connector and tighten the screw.



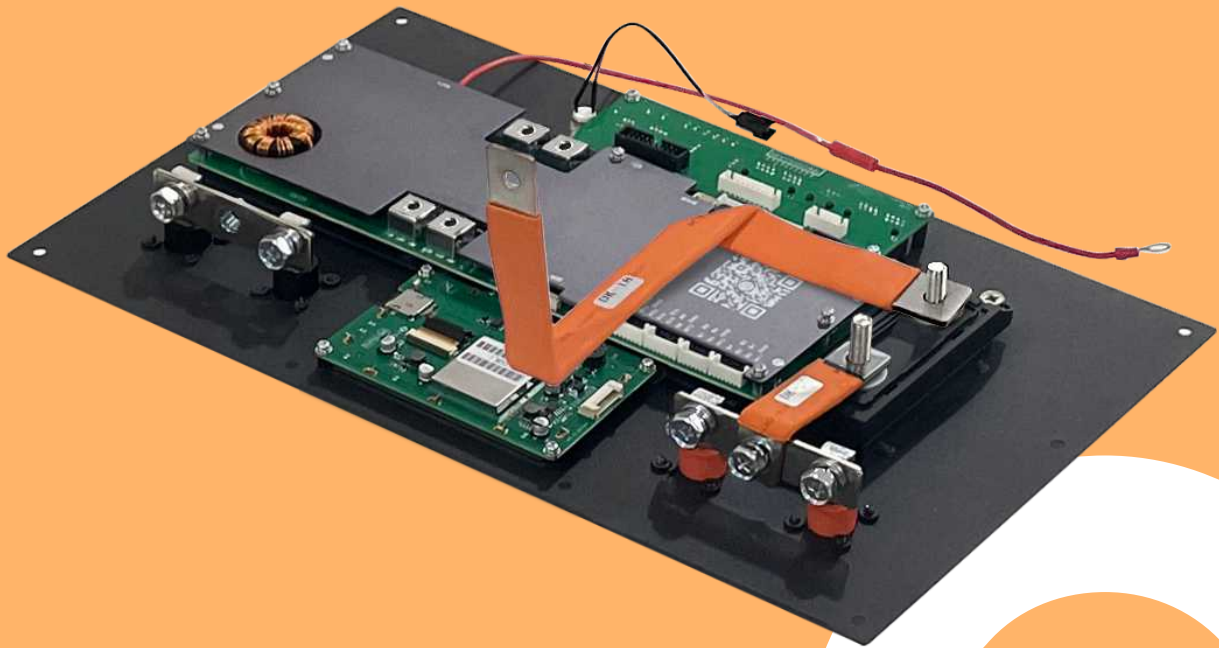






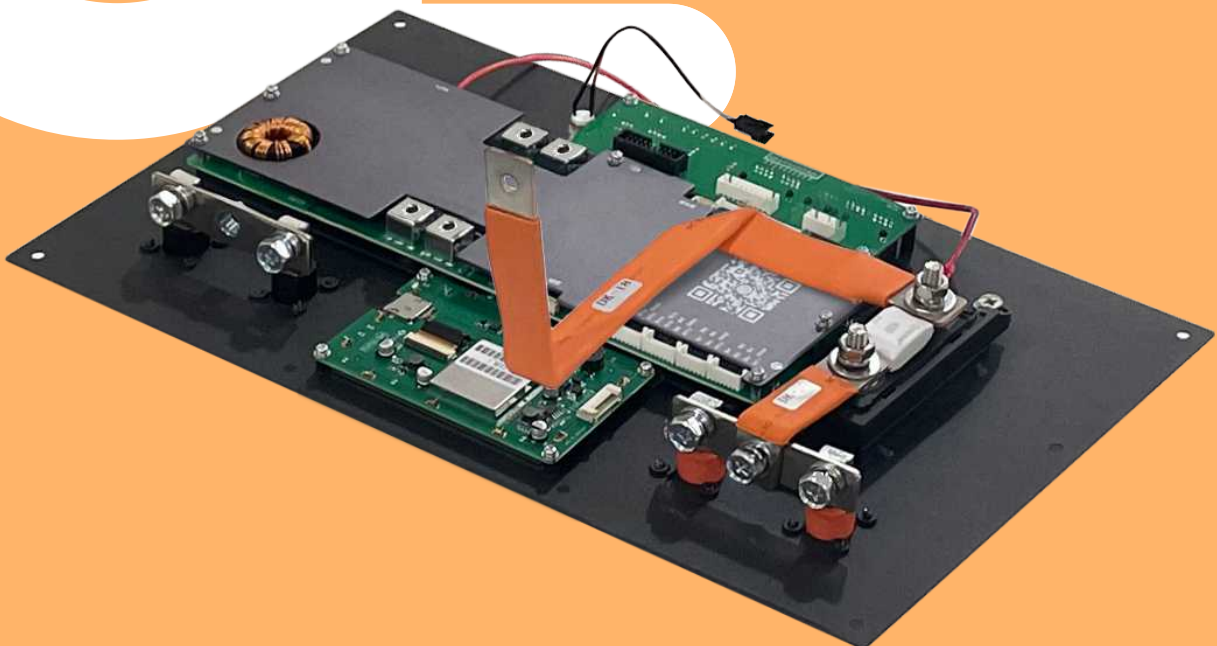
Remove the screws on the display casing, take out the screen, and then install it onto the panel.

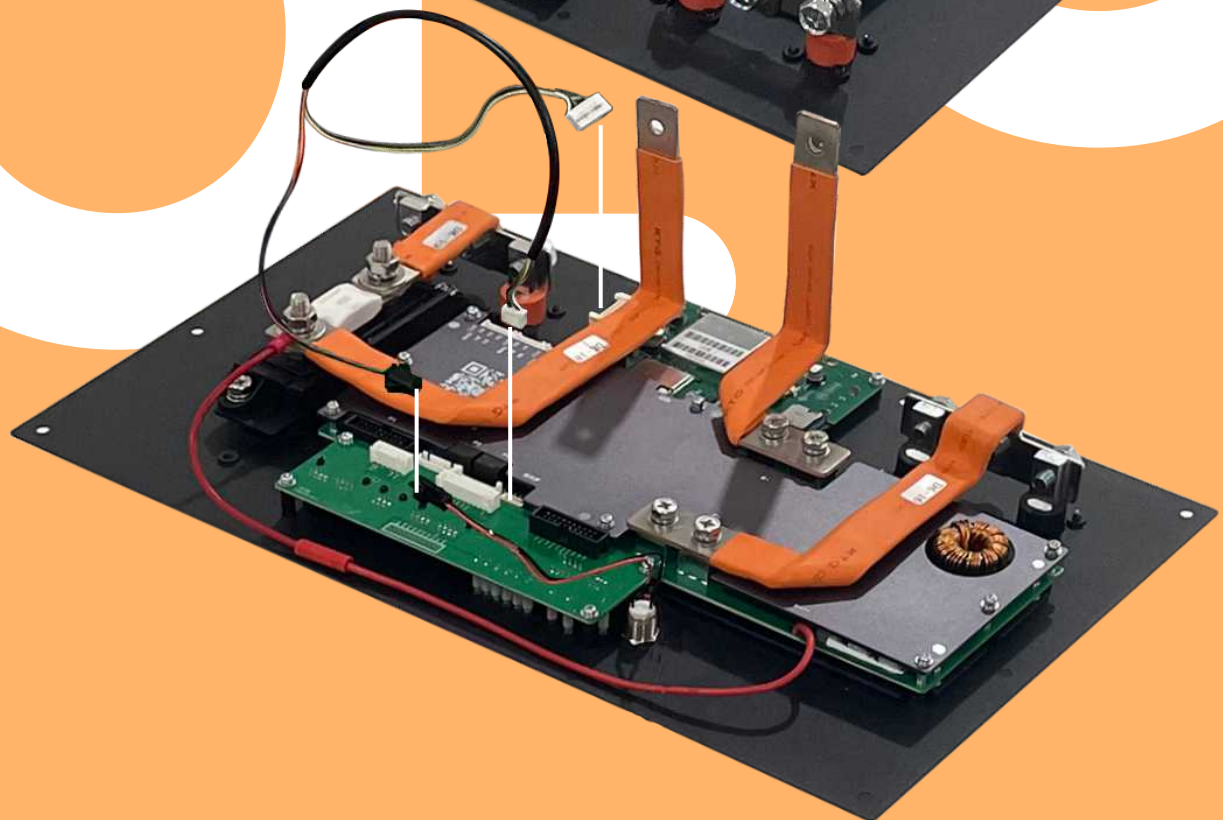
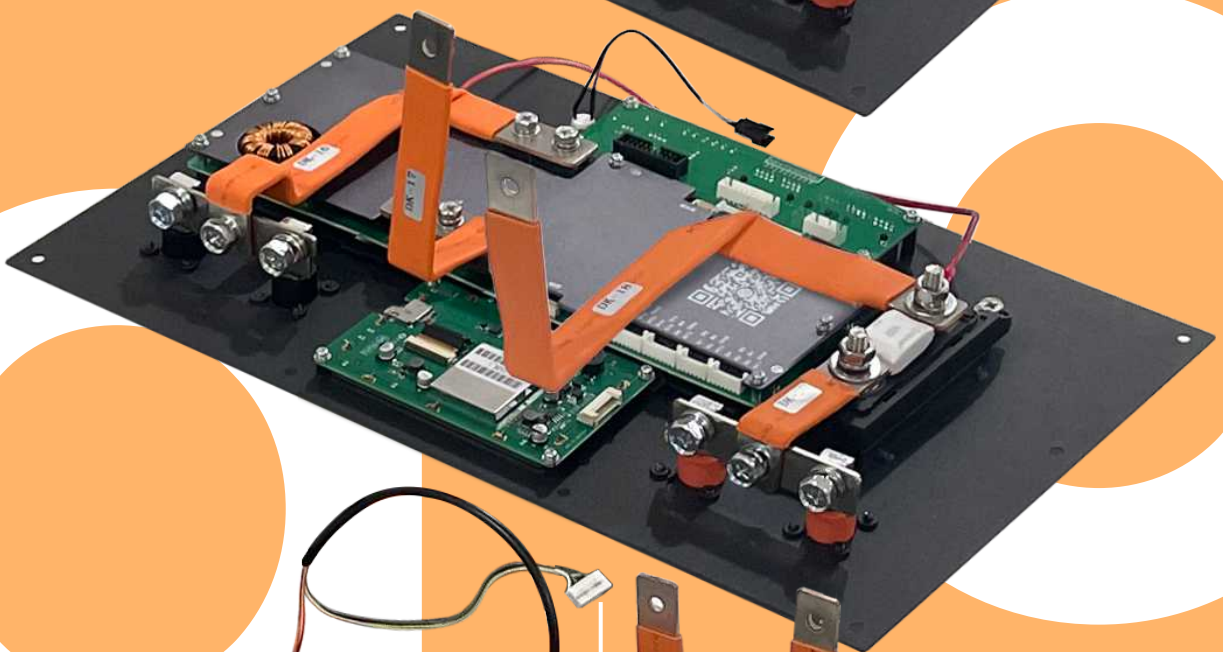
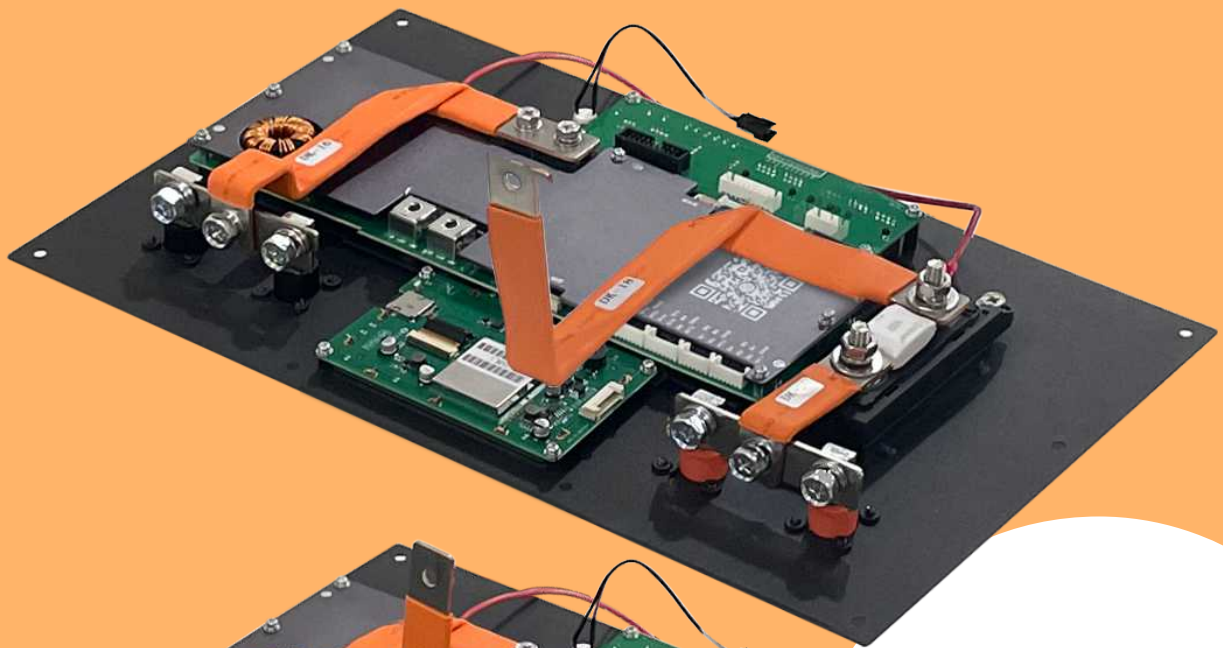


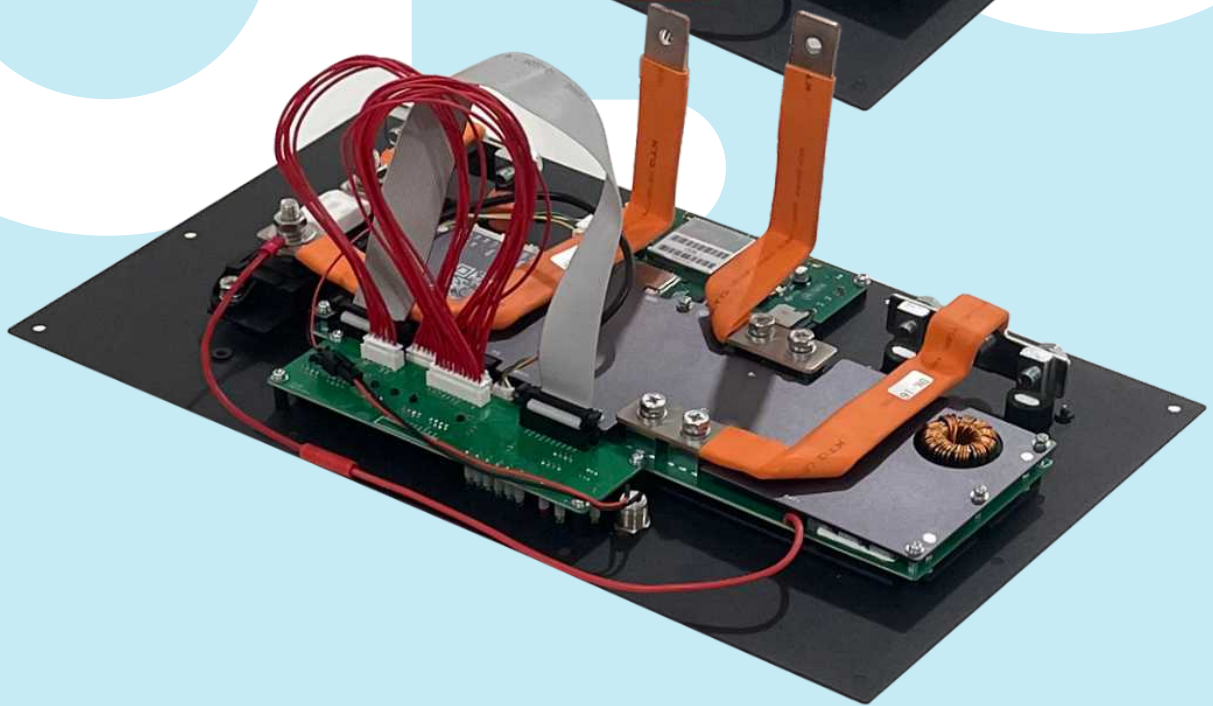
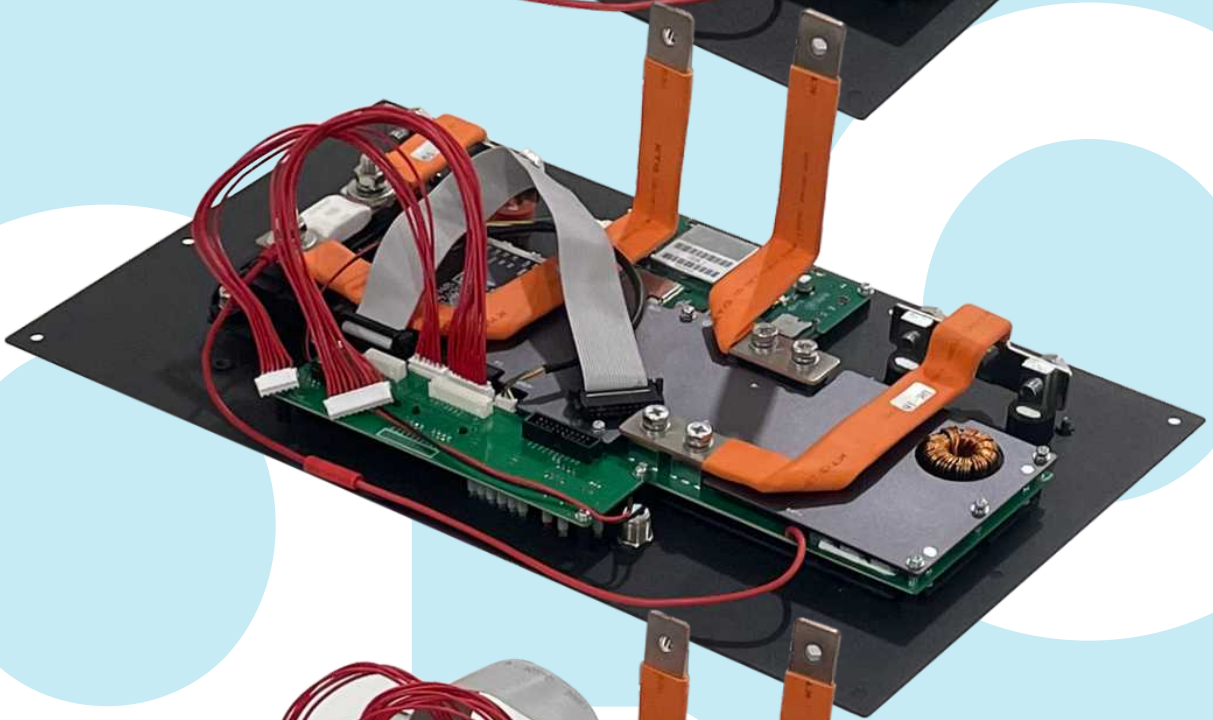
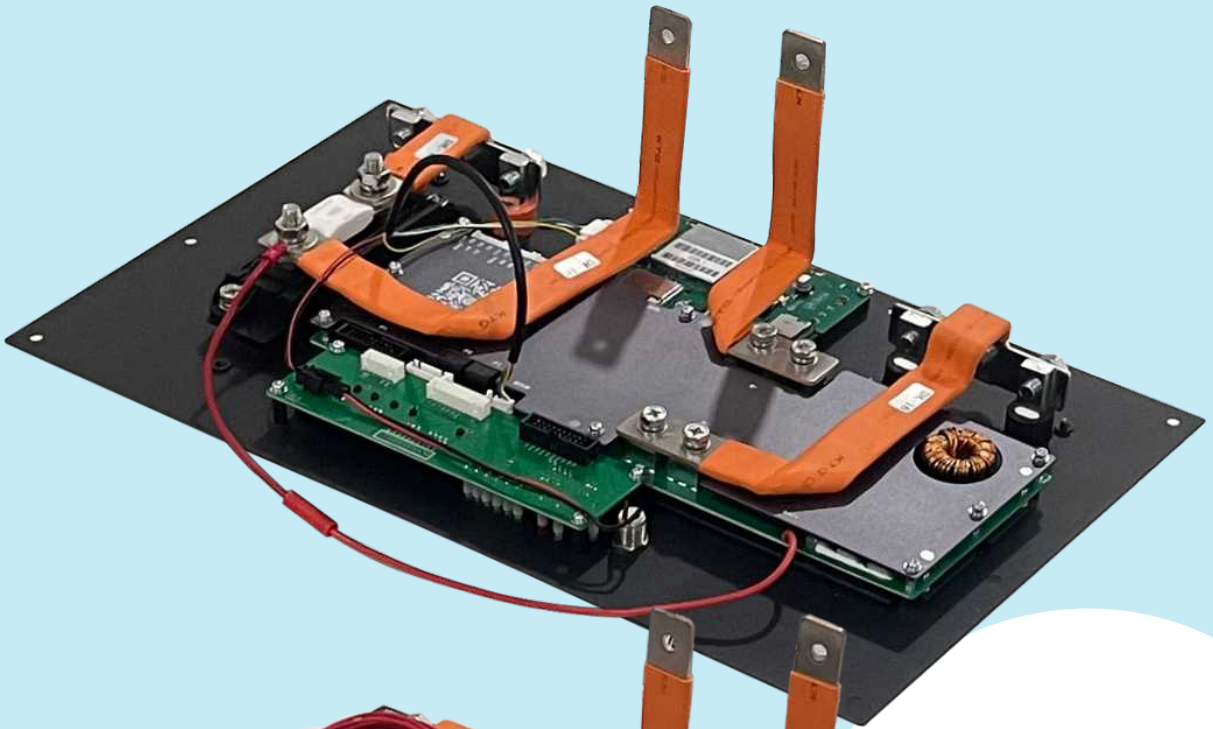


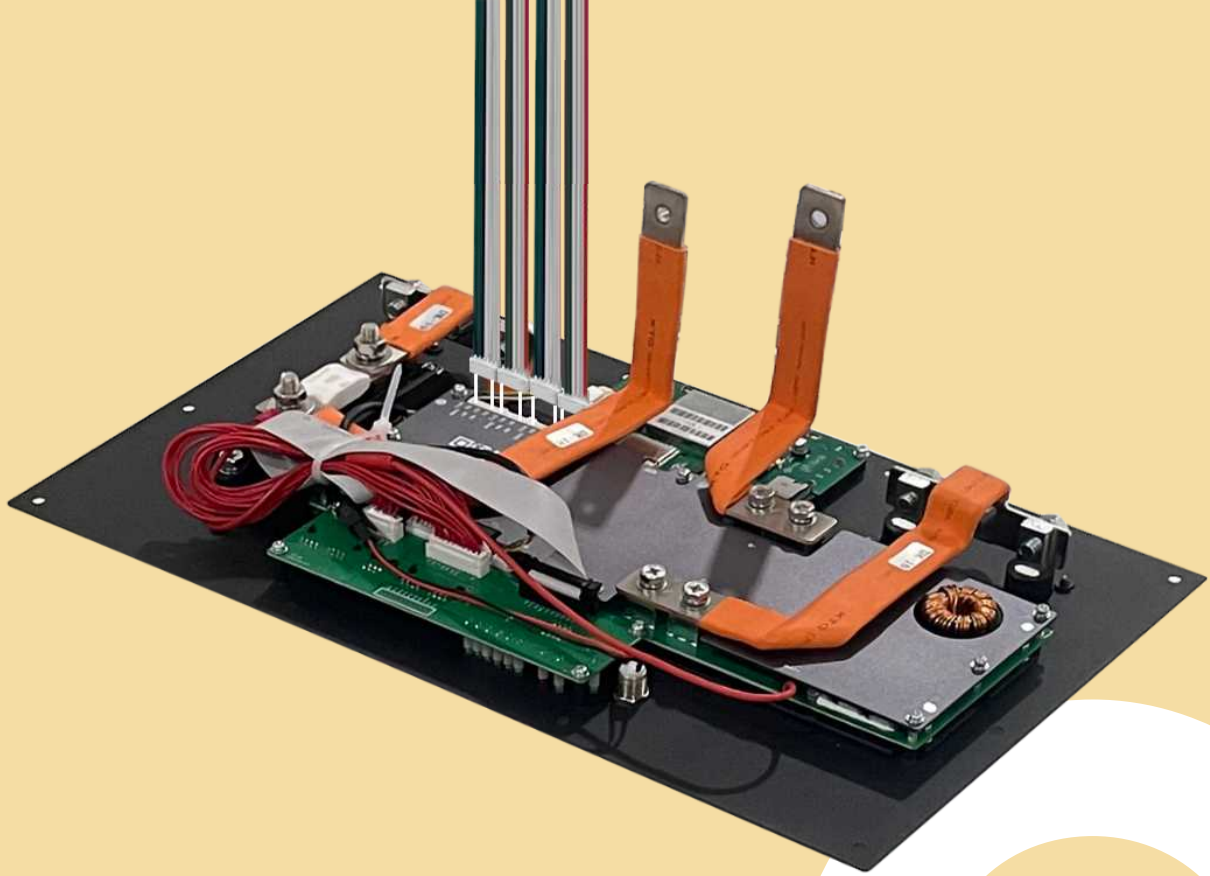
Install the BMS, display screen, fuse, battery terminal and connector on the panel of the box. Tighten all screws of the flexible copper bar, which is a conductor for high current. Unreliable connection may cause abnormal heating and irreversible damage to the system.

Note: The fuse and the flexible copper bar need to be in direct contact, without placing any spacers in between.

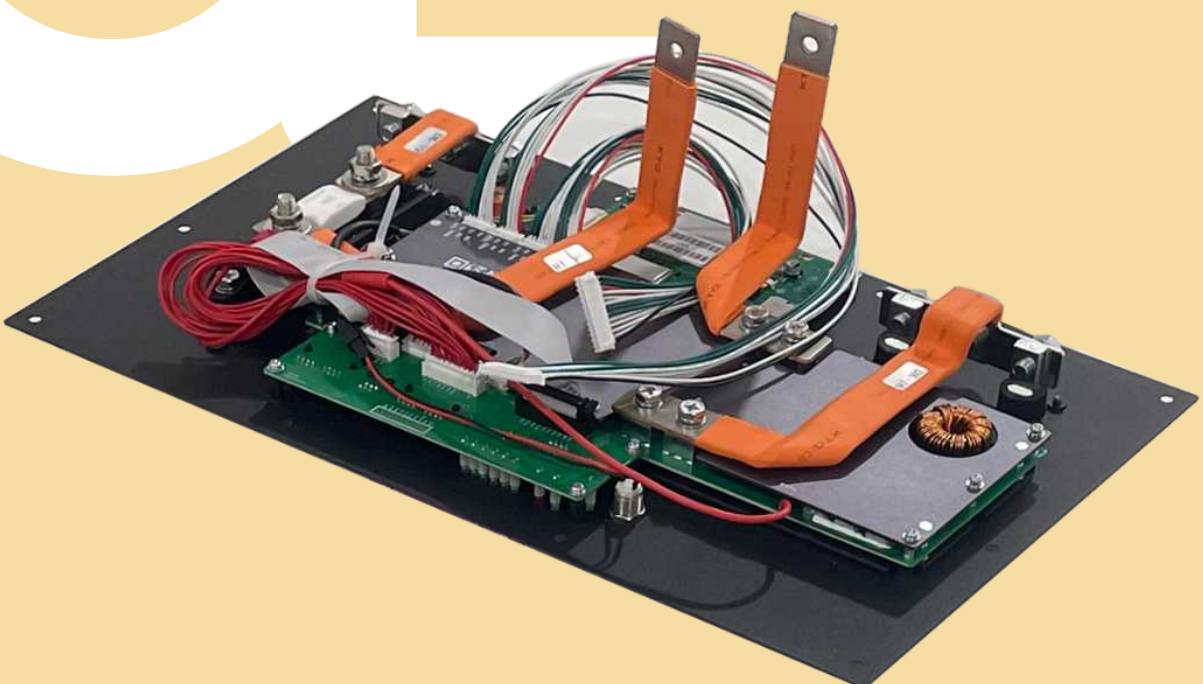


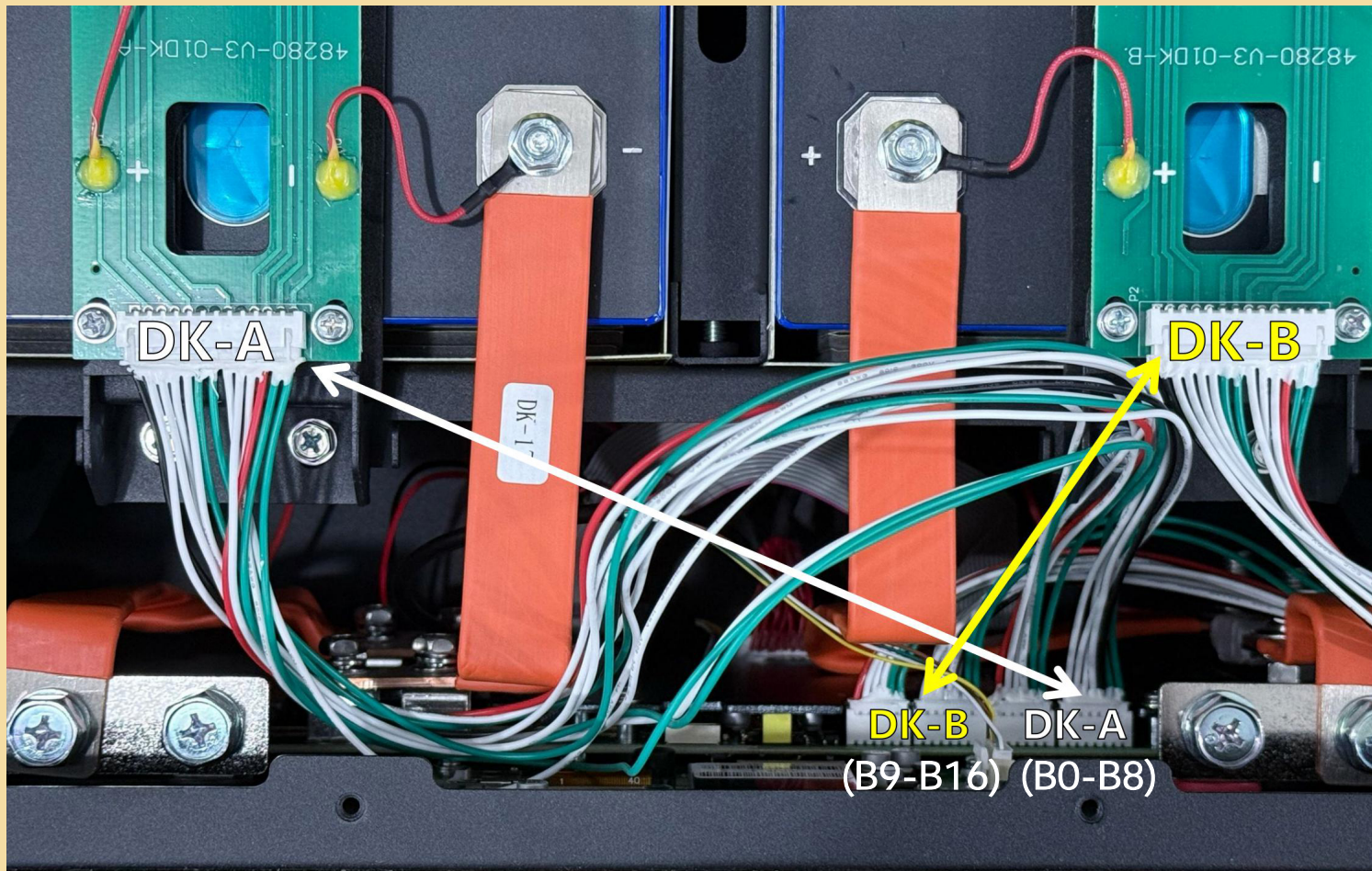






**Install the assembled panel on the front of the battery and connect the connecting piece to the total + - pole of the battery.
Tighten the screws. Note the BMS interface: B0-B8, B9-B16.**





Notice:

Do not connect the cables reversely during installation.

BMS(B0-B8) must connection to DK-A

BMS(B9-B16) must connection to DK-B



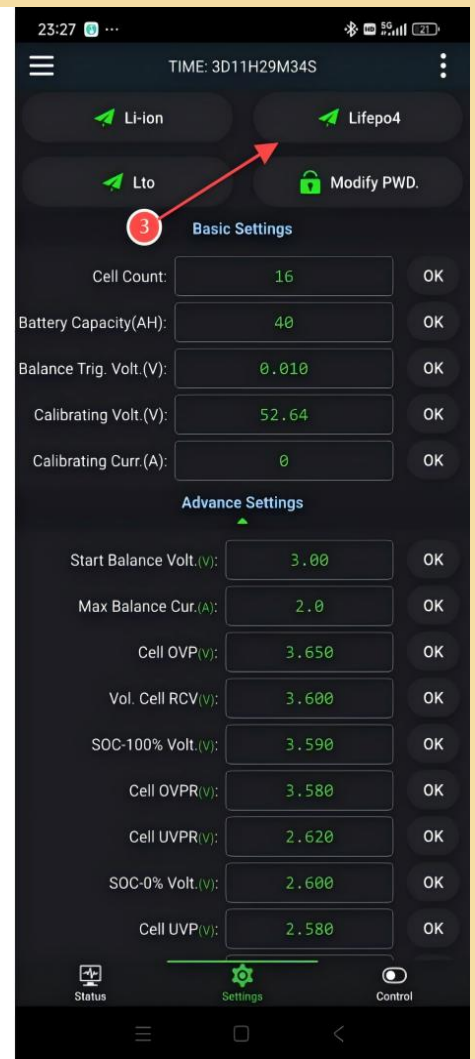
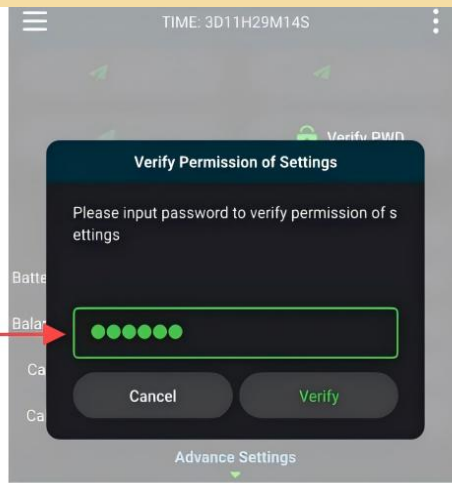


Click the switch button on the display screen and then click confirm to check if the battery starts normally.

After the battery starts normally, install the backplate and tighten all screws. The installation is complete.

Notes:

1. If you use electric tools, it is recommended to use manual tools to tighten the connection after installing the wiring to make it more secure.
2. Please inspect your tools before installation. If a metal screwdriver falls into the battery compartment and touches the positive and negative terminals of the battery, it may cause a battery short circuit (actual case).



Download APP

After the battery pack is installed, connect to the BMS via the Bluetooth APP and complete the following operations:

1. Click Settings.
2. Log in(Password:123456)
3. Select Lifepo4 mode
4. Change battery capacity
5. If the display shows an alarm, just need to change the APP password to fix it.