

APEX **DIY** **BOX** **280**

Battery Pack Assembling Instructions

Please refer to the corresponding installation video to read.

WARNING



This product is compatible with below cells:
3.2V 280Ah LiFePO4
3.2V 304Ah 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.

Please wear insulated gloves, safety shoes and goggles.

-pexium
-pexium

P+

P+

RESET AIR
AIR RUN
CAPACITY
COM COM 2
RS485-1 CAN
RS485-2 RS485-3

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.

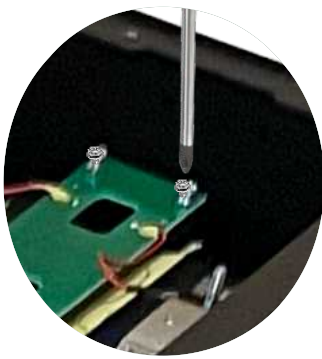
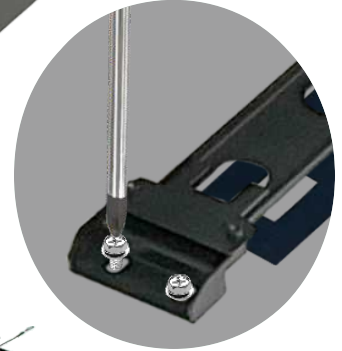


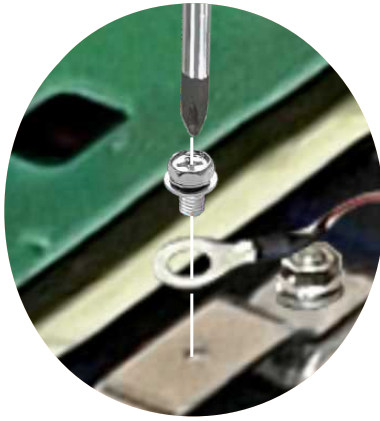
Tighten the baffle of the battery compartment until it is fixed.



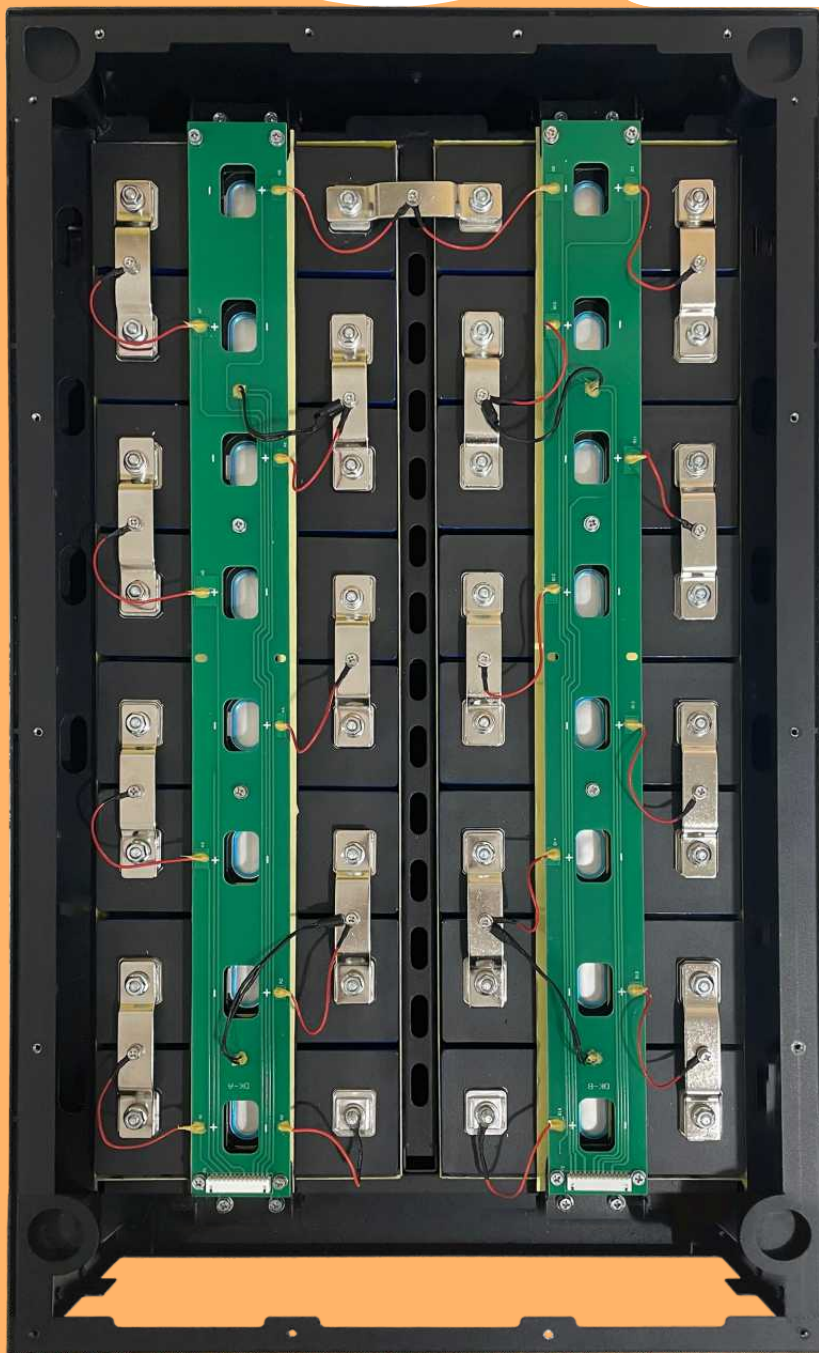


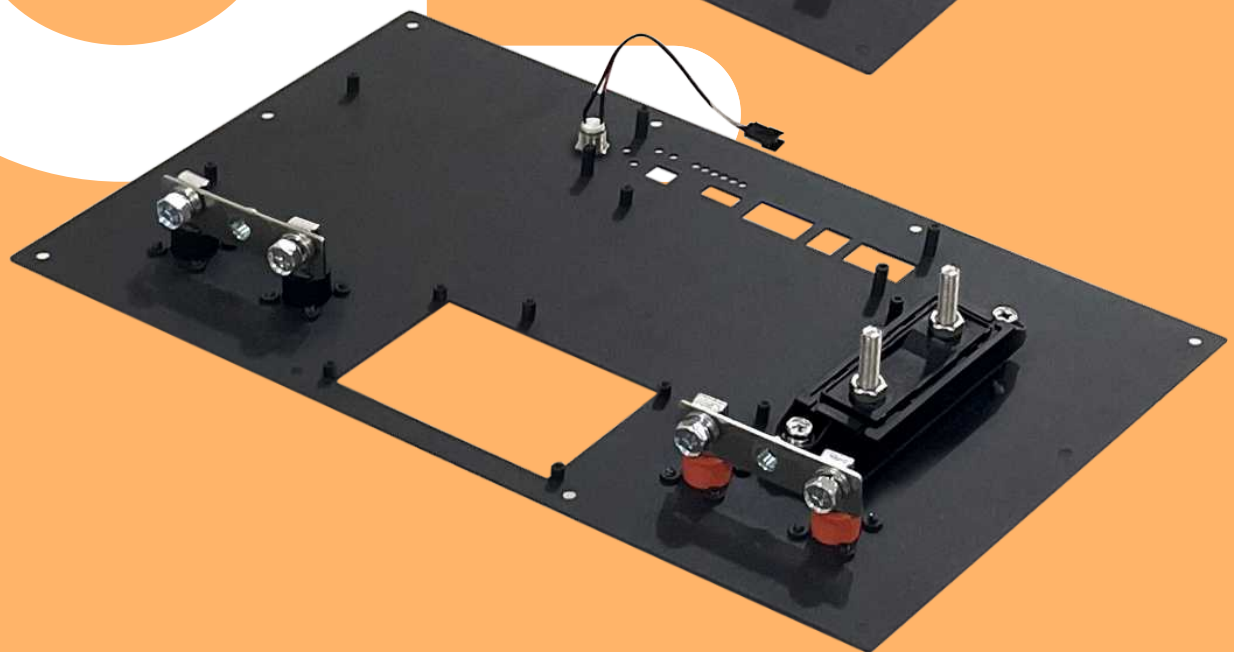
Install the collection board of the battery pack on the bracket of the battery compartment, and then fix the bracket above the battery compartment.

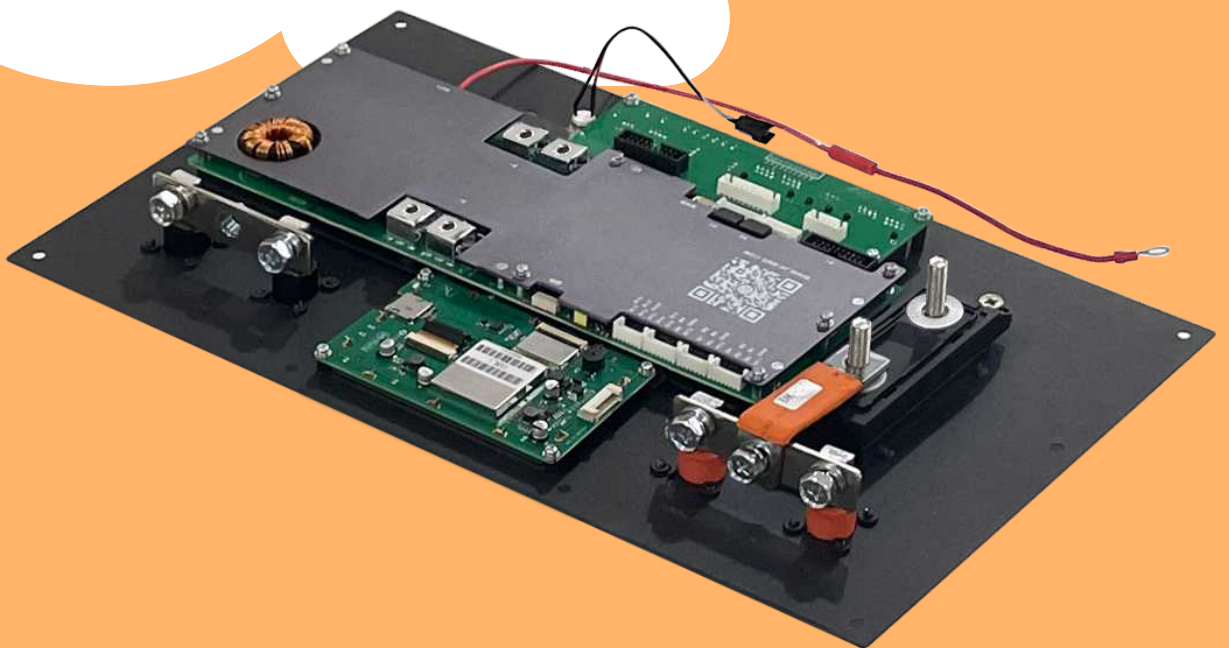
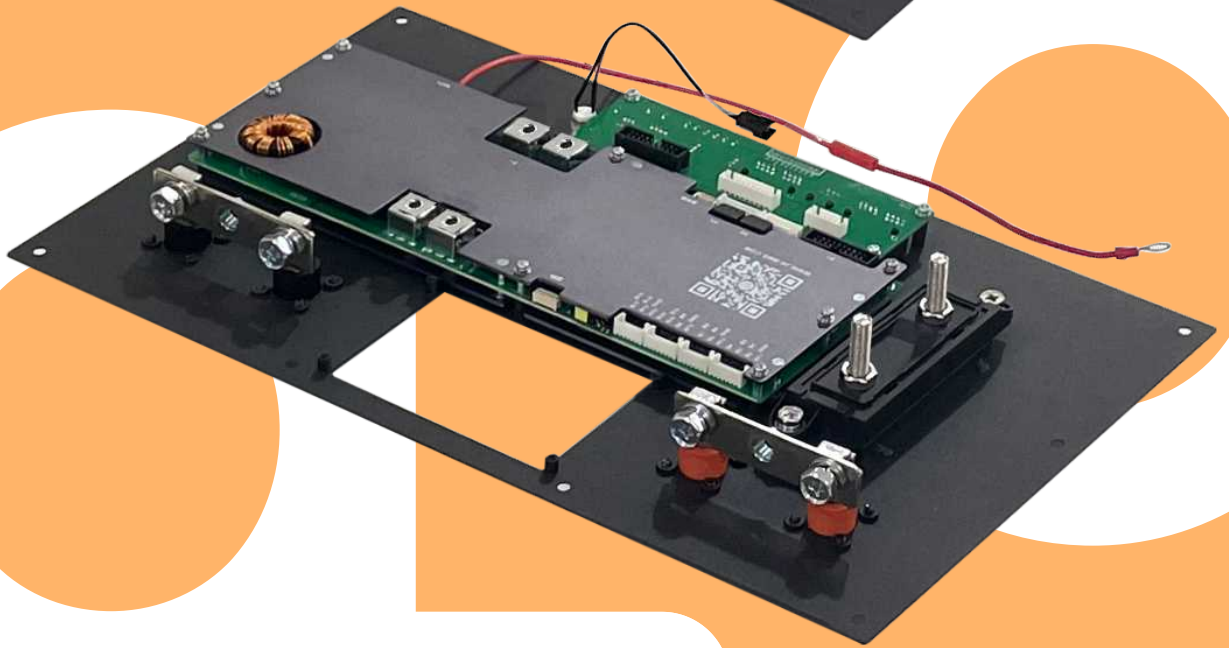
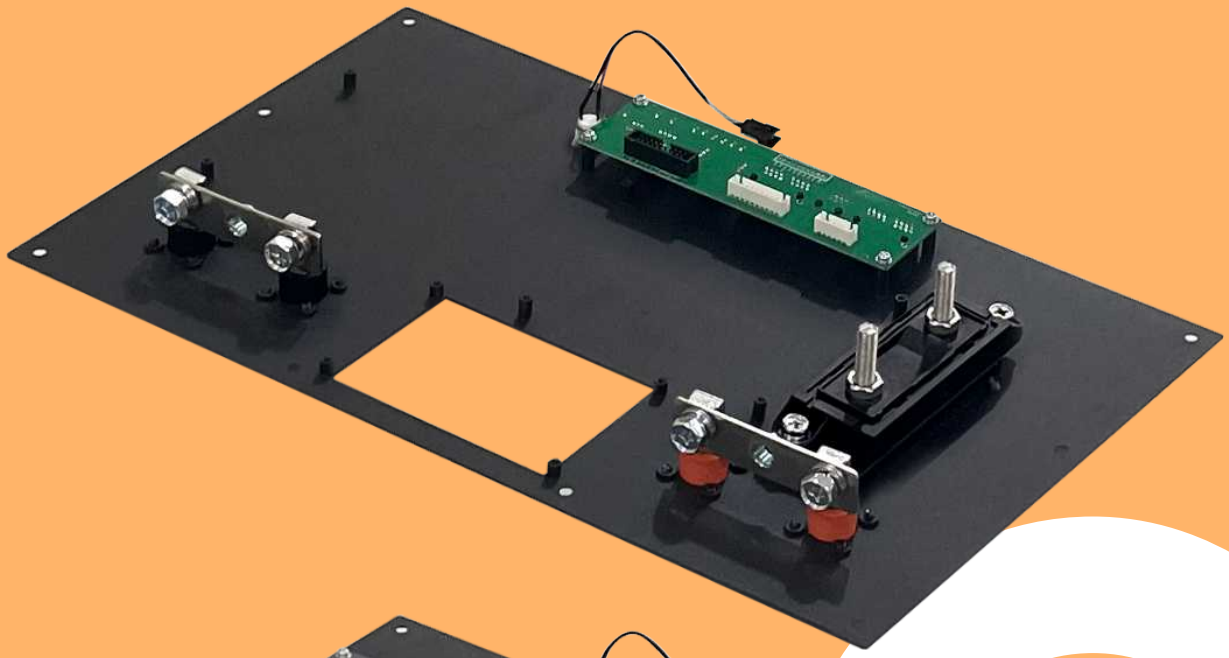


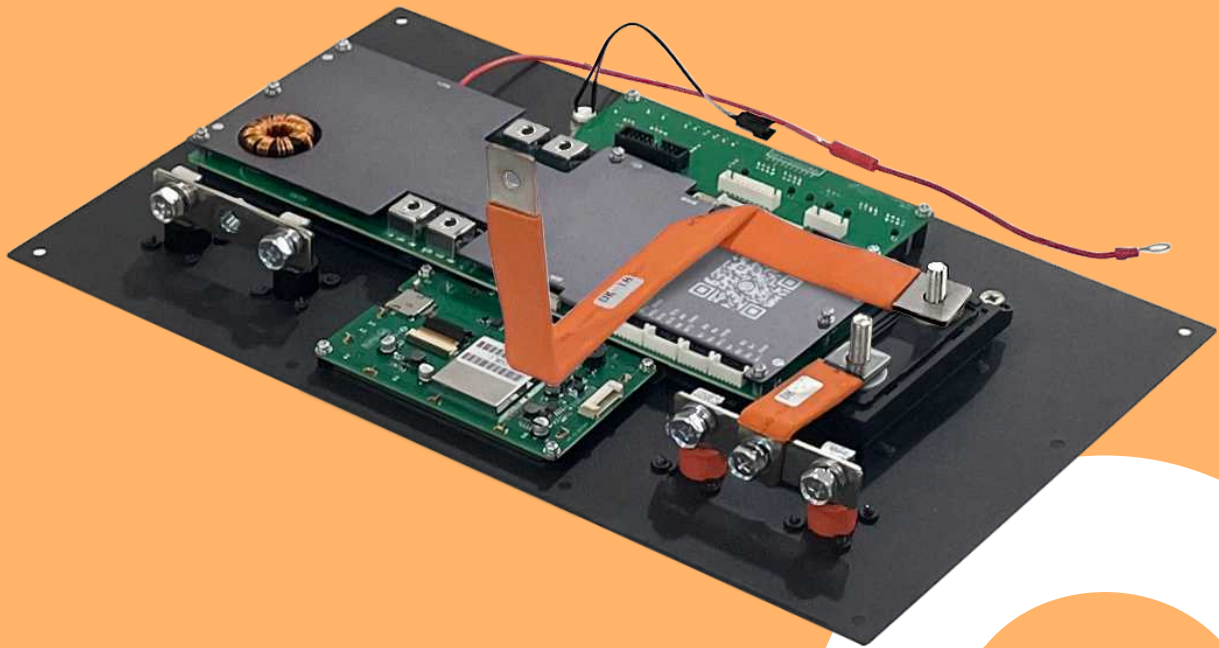


Place a gasket on each battery terminal, then place the connecting piece, and screw on the nut (recommended 7 Nm). Connect the wire of the collection board to the middle screw hole of each connector and tighten the screw.

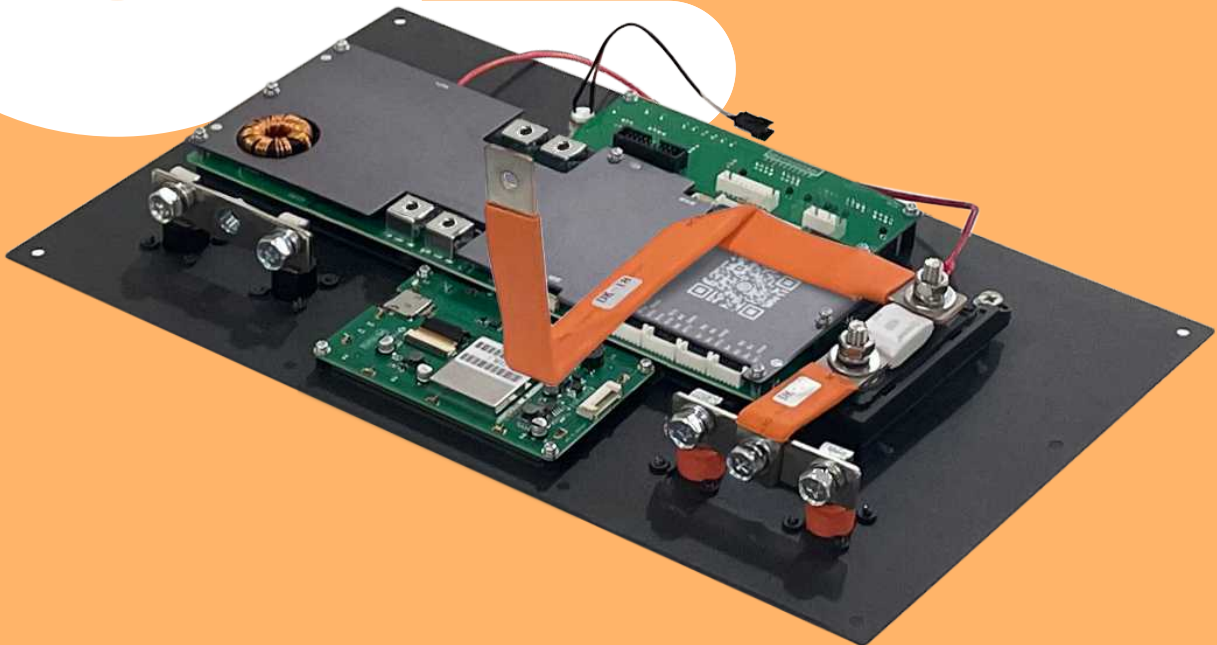


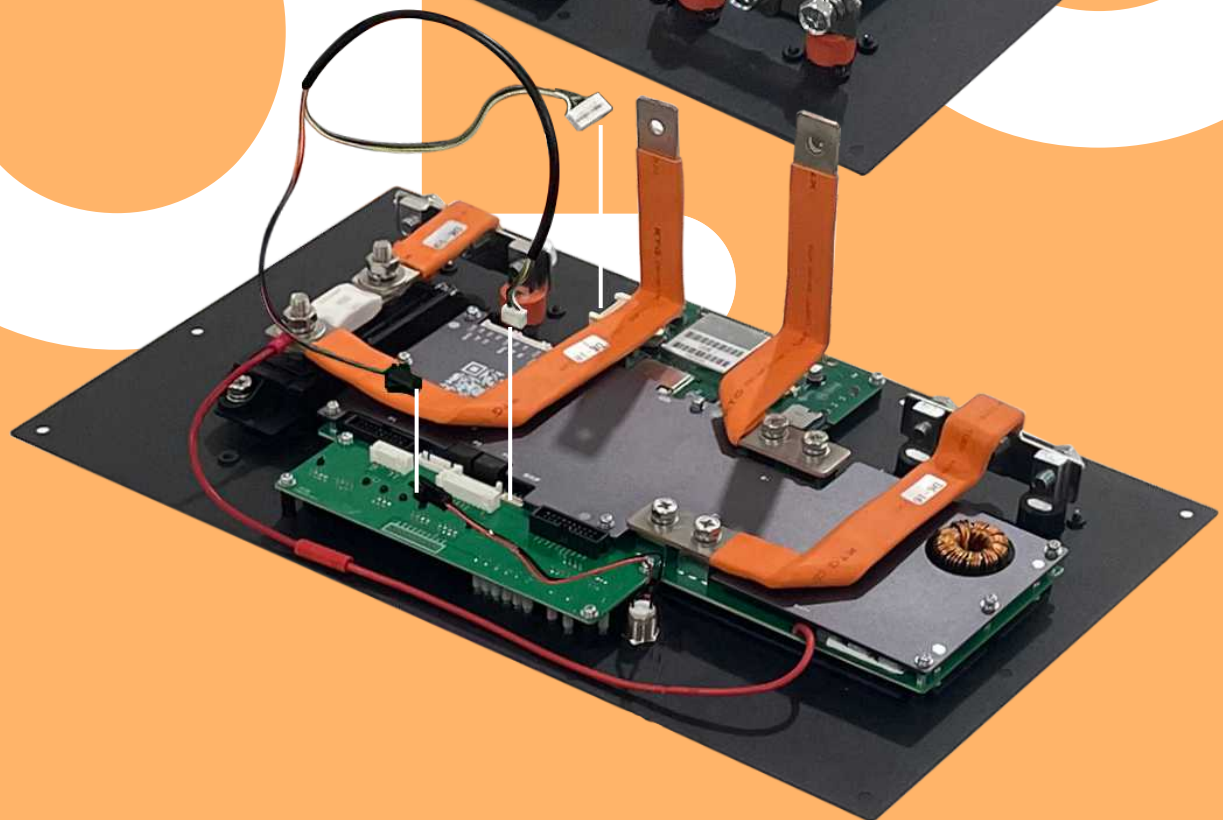
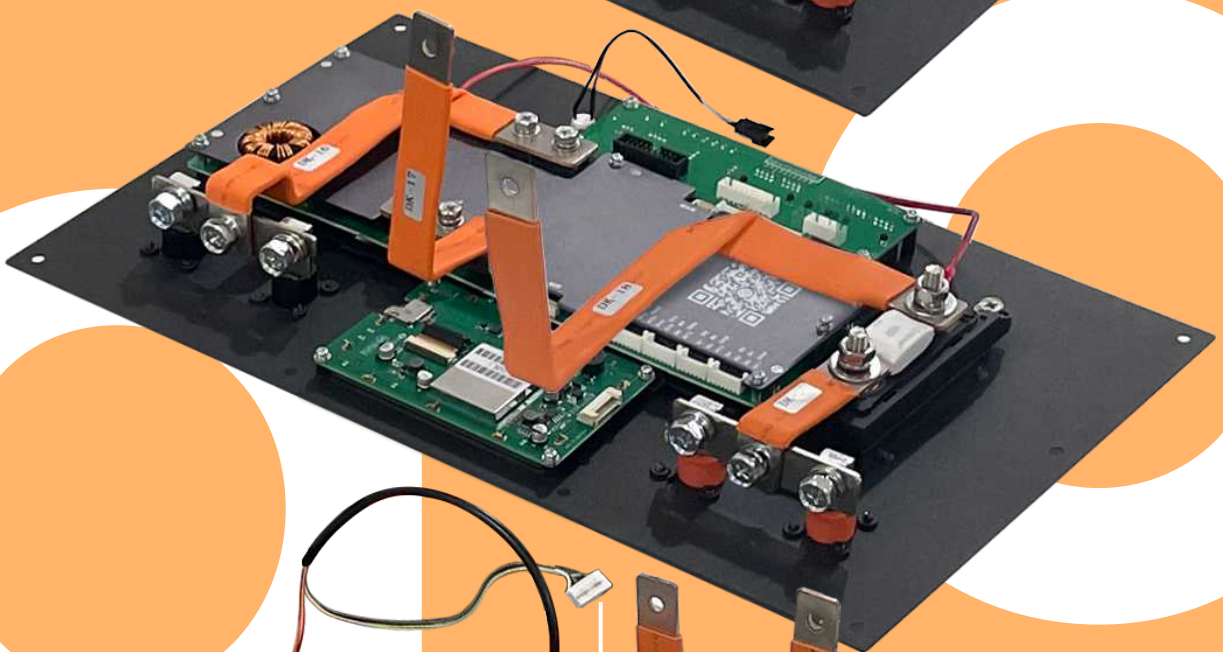
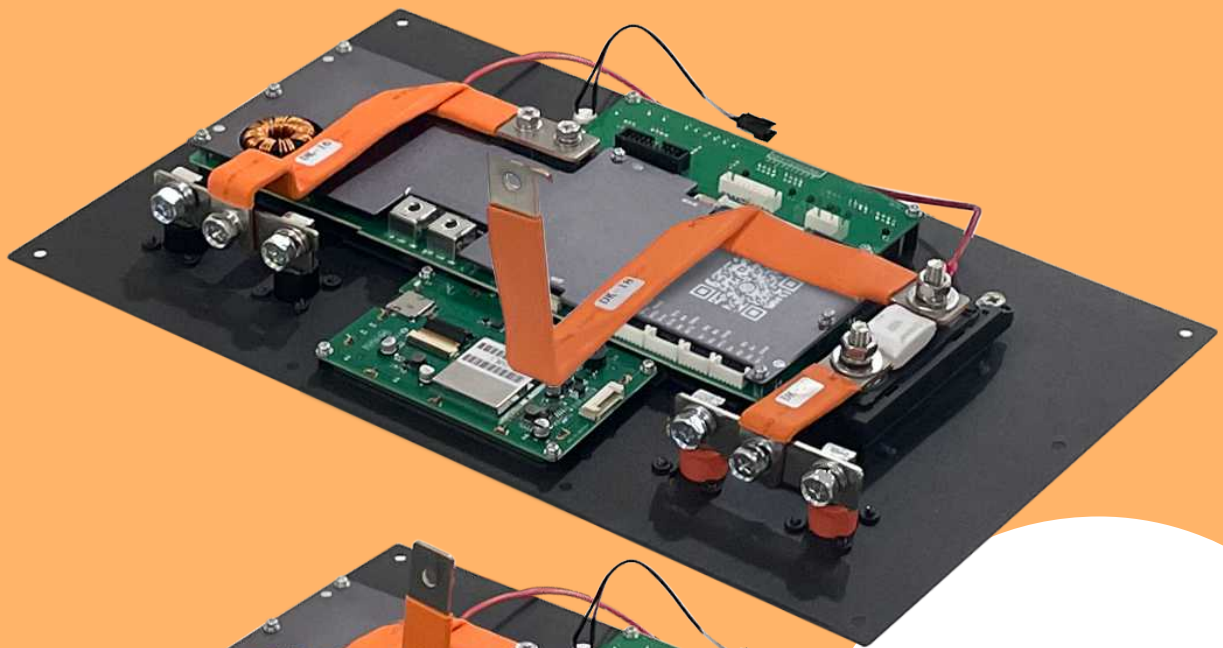


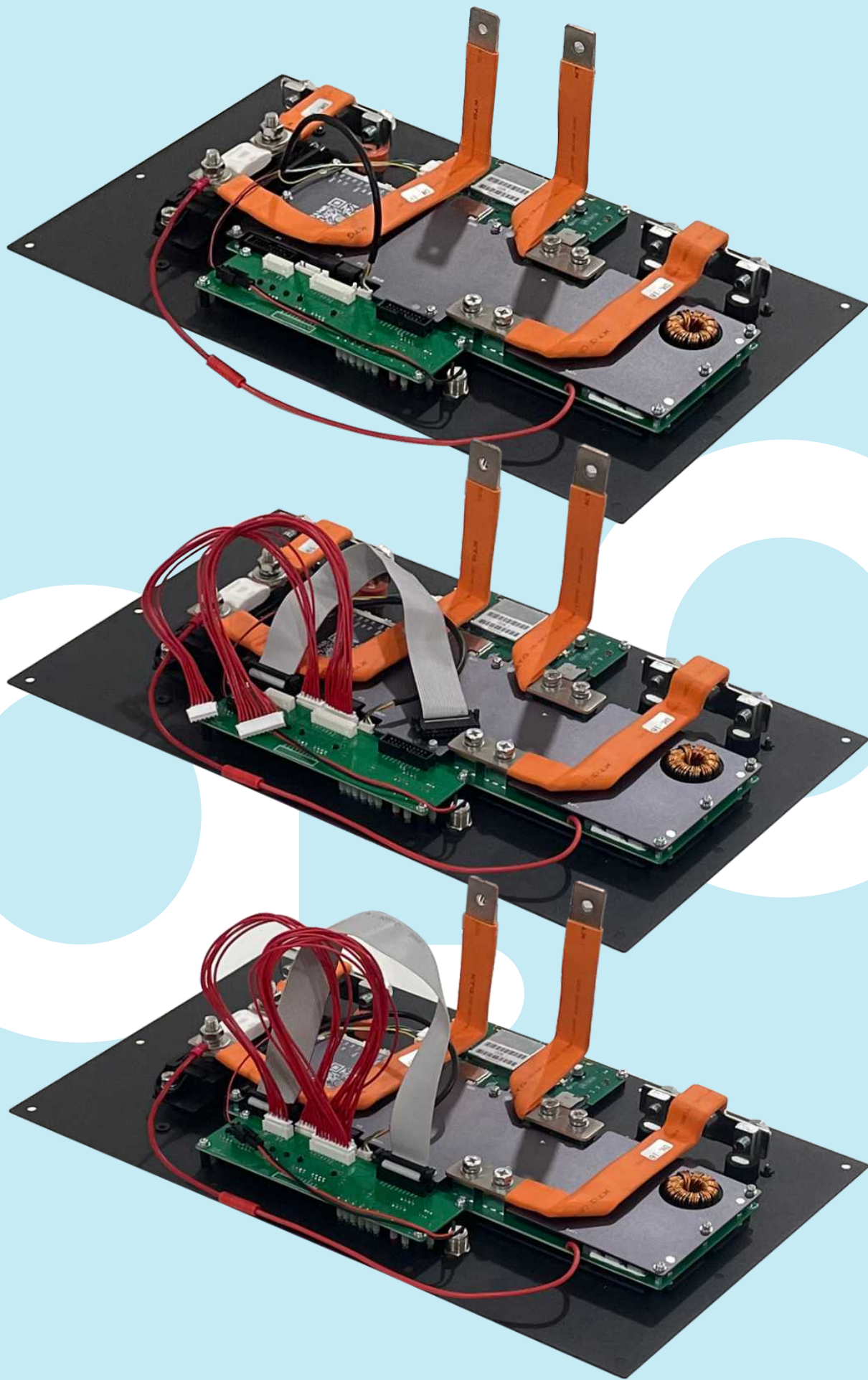


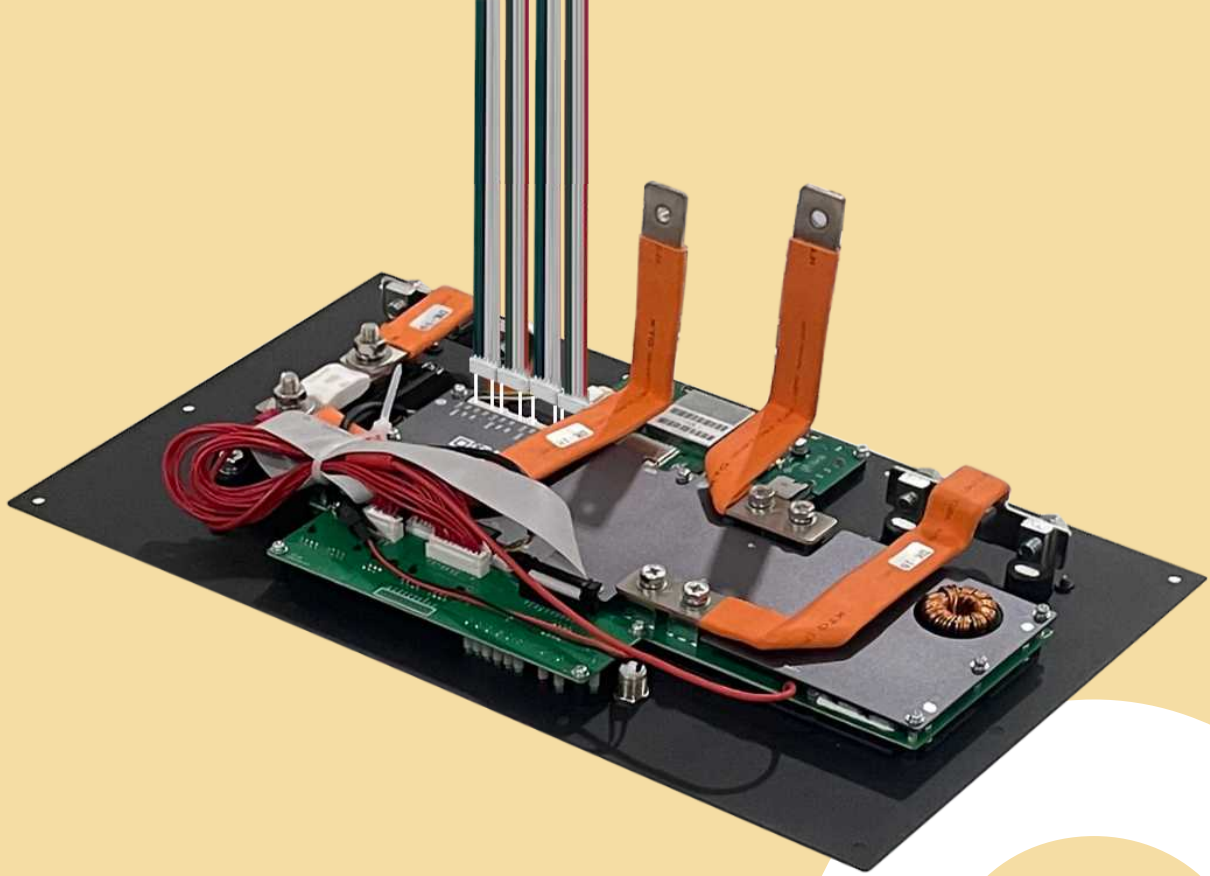


Install the BMS, display screen, fuse, battery terminal and connector on the panel of the box. Tighten all screws of the flexible copper bar, which is a conductor for high current. Unreliable connection may cause abnormal heating and irreversible damage to the system.

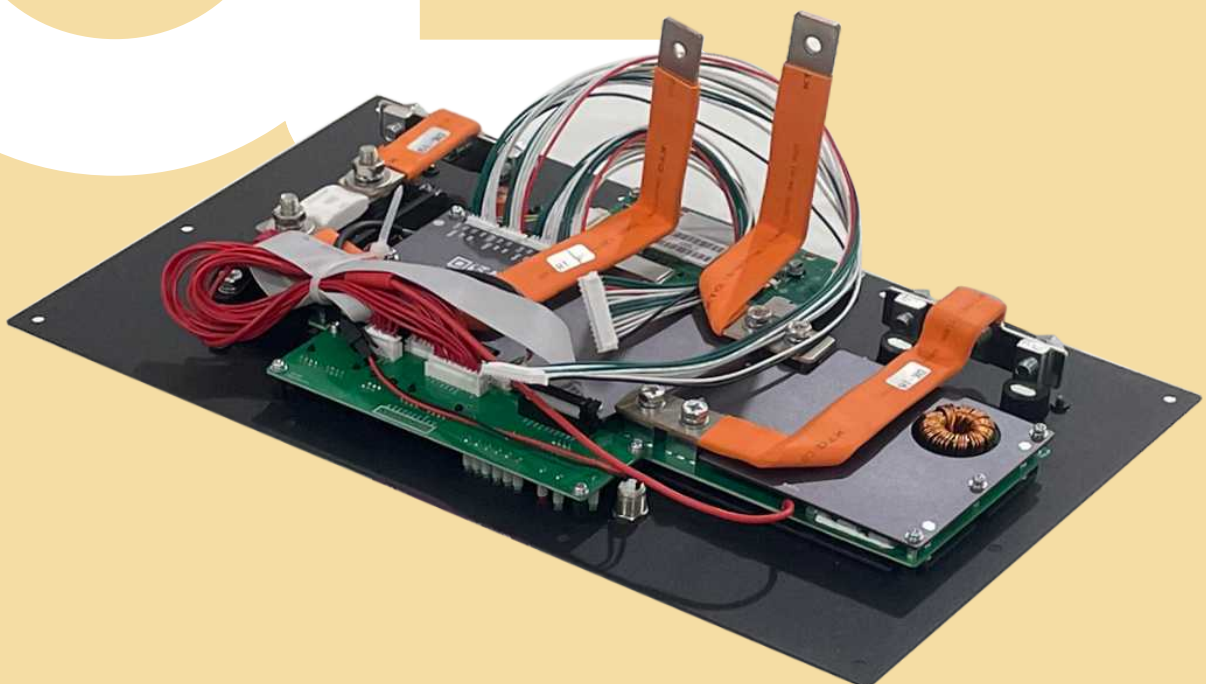








Install the assembled panel on the front of the battery and connect the connecting piece to the total + - pole of the battery. Tighten the screws. Connect the two cables of the BMS to the acquisition board respectively, ensuring reliable connection between the cables and the acquisition board.





Long wire



Warning:

**Connect the short wire first
then connect the longer one,
otherwise may cause BMS damage!**



short wire





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).

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