

GROWATT

Quick Installation Guide

ALP 5.0L-E2 EU



Shenzhen Growatt New Energy Co.,Ltd.

Installation environment



Max.+50°C



Min.-10°C

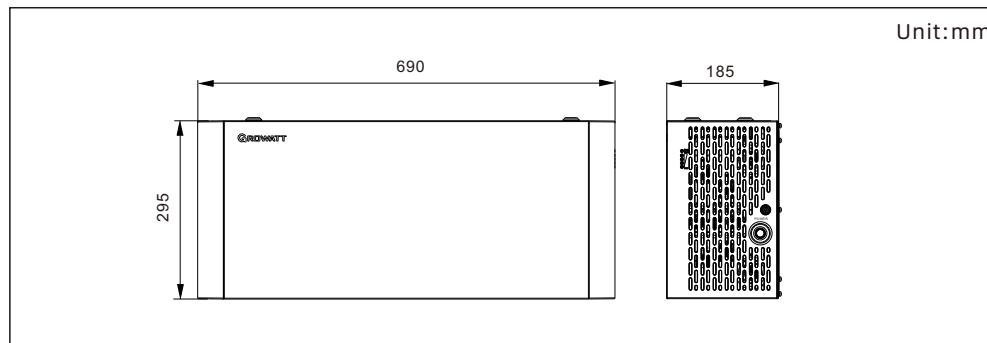


RH.+5%~+95%

Installation tools

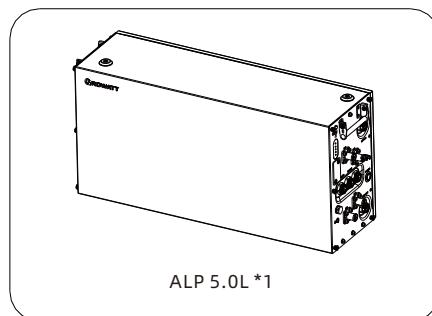
The following tools are required to install the PACK:

Dimensions

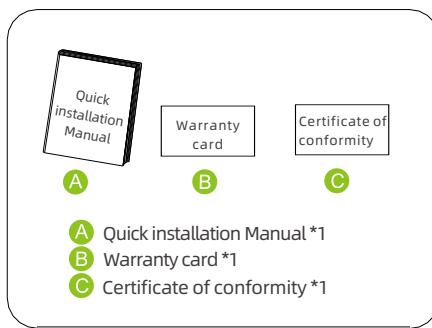


1.Check

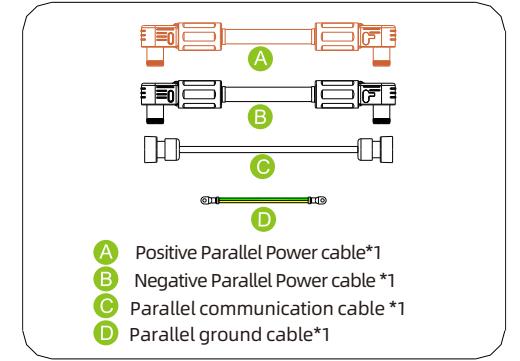
1-1 Check the Packing List



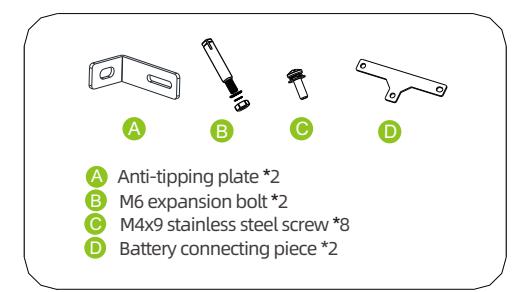
ALP 5.0L *1



- (A) Quick installation Manual *1
- (B) Warranty card *1
- (C) Certificate of conformity *1



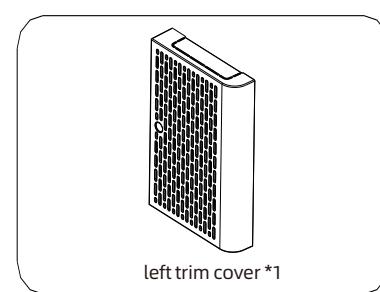
- (A) Positive Parallel Power cable*1
- (B) Negative Parallel Power cable *1
- (C) Parallel communication cable *1
- (D) Parallel ground cable*1



- (A) Anti-tipping plate *2
- (B) M6 expansion bolt *2
- (C) M4x9 stainless steel screw *8
- (D) Battery connecting piece *2

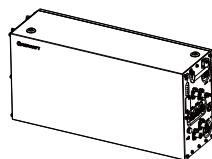


right trim cover *1



left trim cover *1

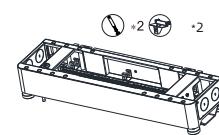
1-2 Check the accessories



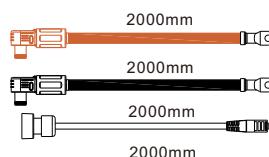
A



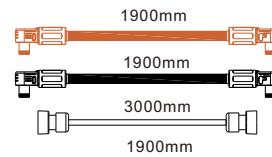
B



C



D

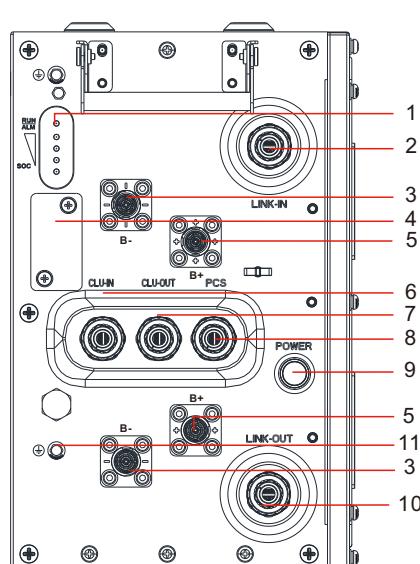


E

Installation Method	Compound Mode
Standard wall-mounted installation	A*N+B+D
Standard floor-mounted installation	A*N+C+D
Wall-mounted battery system stacked in two	A*N+B*2+D+E
Floor-mounted battery system stacked in two	A*N+C*2+D+E

Note: "N" stands for the number of batteries.

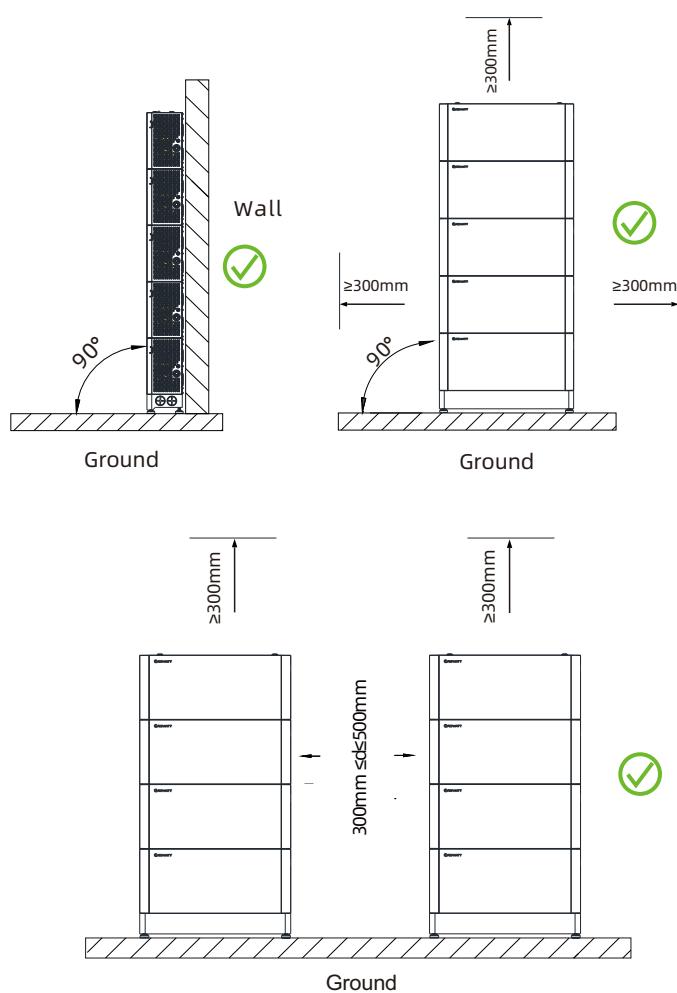
2. Introduction to the battery operation panel



1	LED
2	LINK-IN CAN communication
3	Negative terminal
4	USB interface
5	Positive terminal
6	Cluster-in communication
7	Cluster-out communication
8	PCS CAN communication
9	Power button
10	LINK-OUT CAN communication
11	GND terminal

2. Basic installation requirements

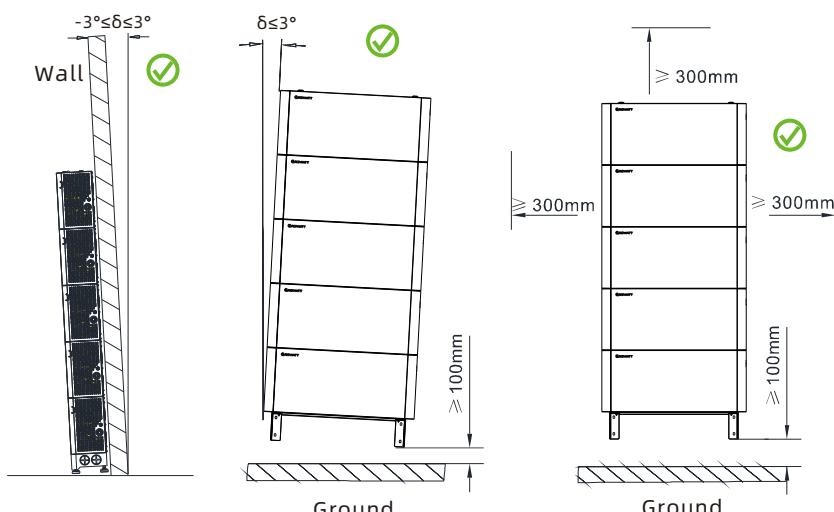
3-1 Floor-mounted Installation



Note: Do not turn the PACK upside down, and ensure that the floor is level.

A maximum of 5 battery packs can be stacked. If there are more than 5 of them, please install them in two lines.

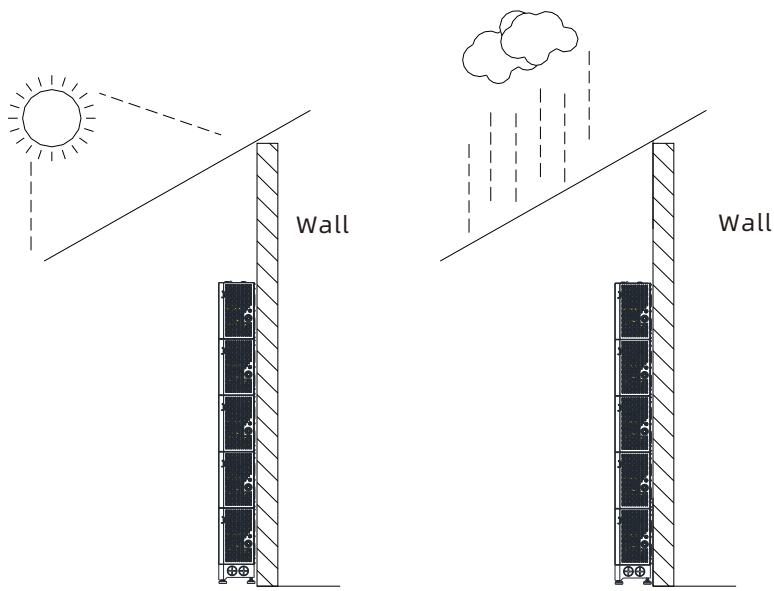
3-2 Wall-mounted Installation



Note: The number of battery modules in wall-mounted installation should not exceed five.

Ensure that load capacity of the wall exceeds 280kg.

3-3 Outdoor installation

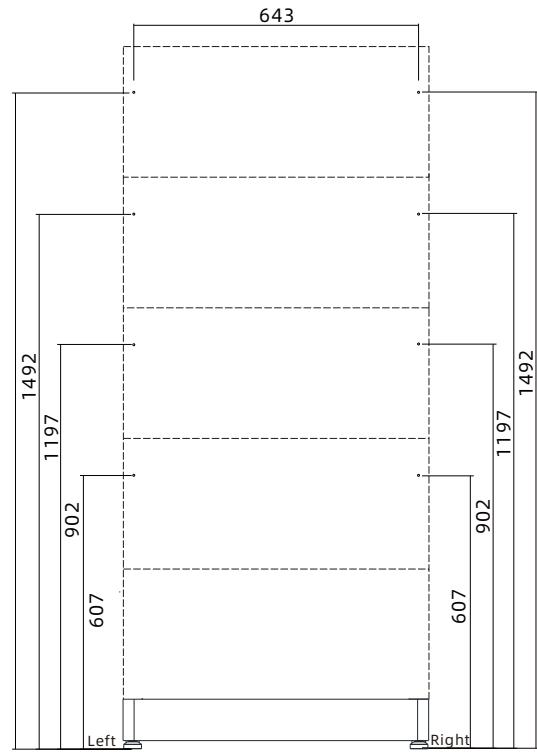
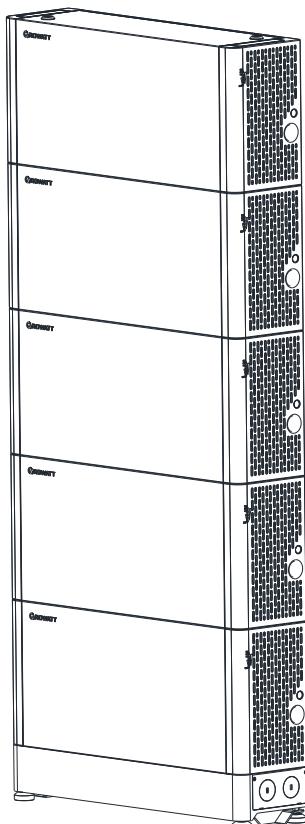


Note: When installing outdoors, build a sun and rain shade to avoid direct exposure to the sunlight and rain.

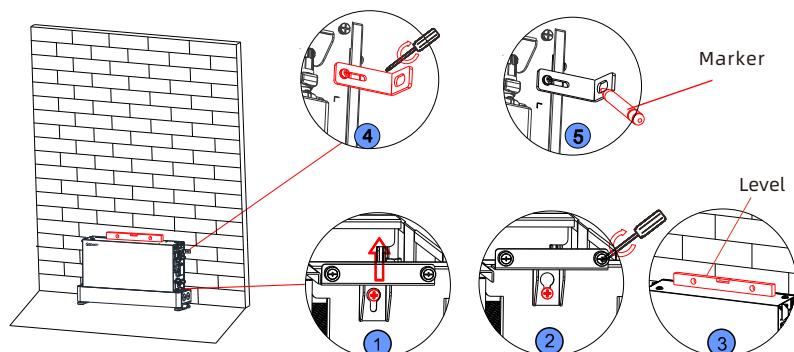
4. Installation

4-1 Hole dimensions

(unit: mm)

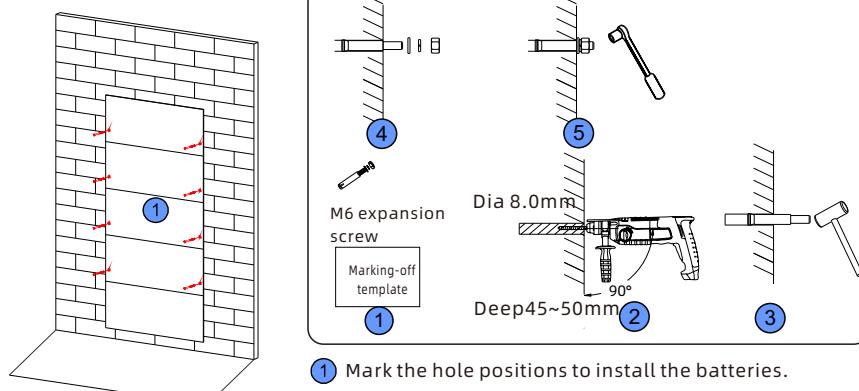


1



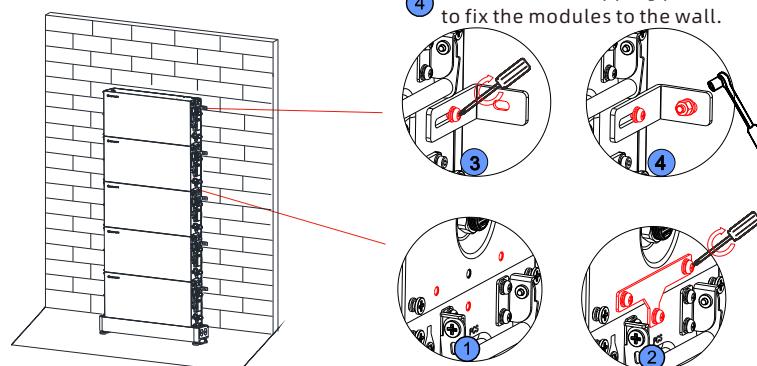
- ① ② Install the connecting pieces on both sides and tighten the two screws.
③ Keep the battery level.
④ Install the anti-tipping plates on both sides and tighten the two screws.
⑤ Mark the hole position to fix the battery module.

2



- ① Mark the hole positions to install the batteries.
② ③ ④ ⑤ Install the M6 expansion bolt and tighten the nut.

3

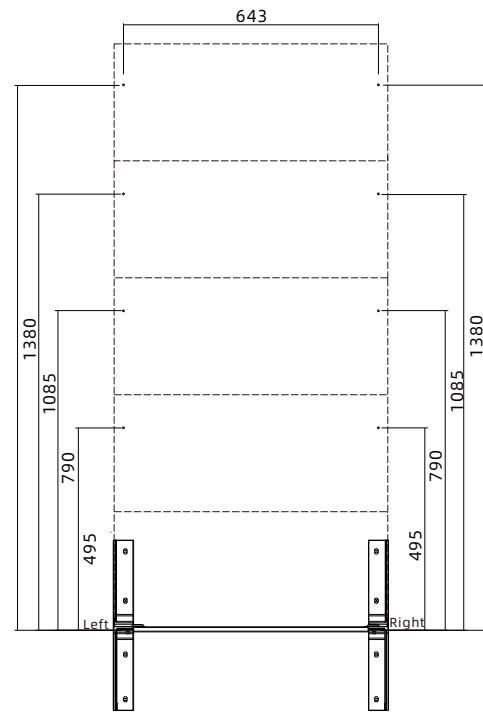
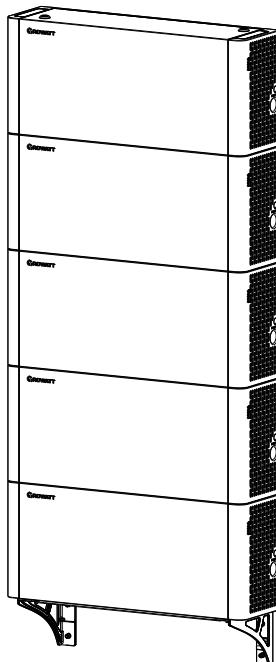


- ① ② Secure the connecting pieces on both sides of the battery module using the M4x9 screws, and tighten the 6 screws.
③ Install the connecting pieces on both sides and tighten the two screws.

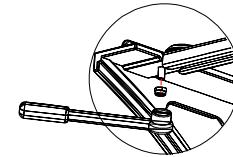
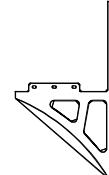
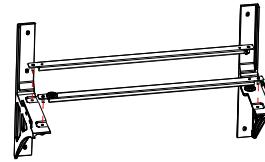
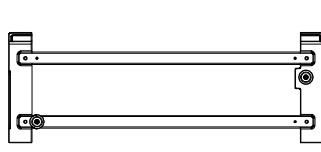
4-2 Wall-mounted Installation

(unit: mm)

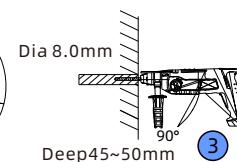
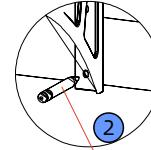
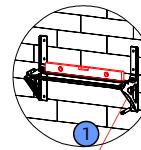
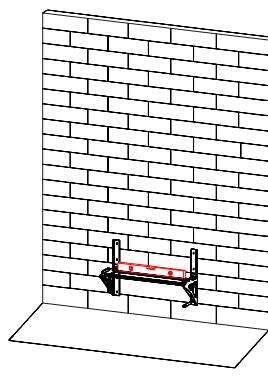
Hole dimensions



1

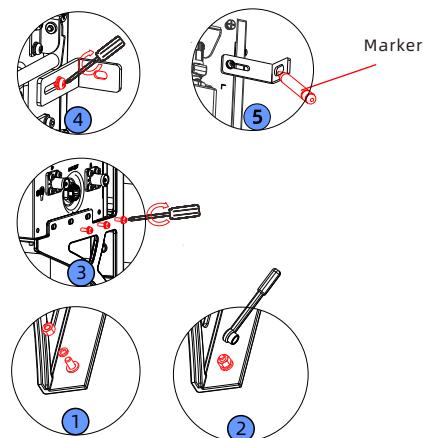
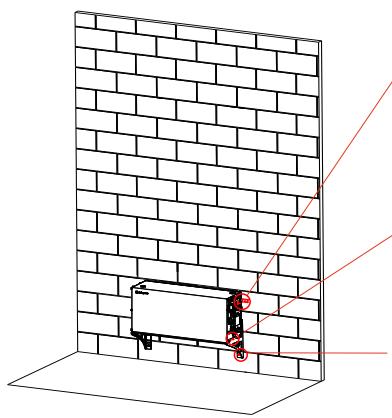


2



- ① Keep the bracket level.
- ② Mark the mounting hole positions on the wall for installing the bracket.
- ③ Drill eight holes.

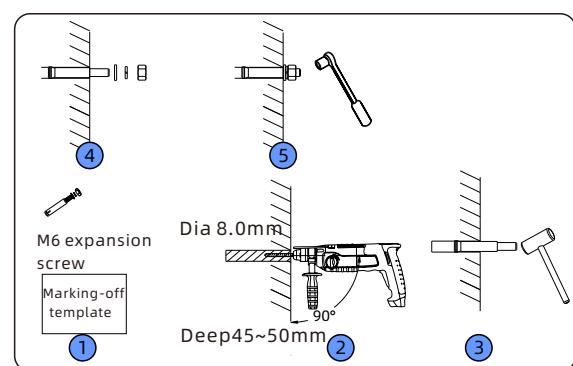
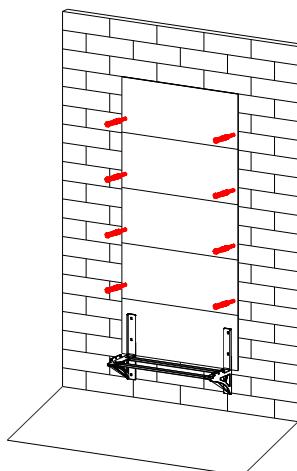
3



① ② Fix the wall bracket to the wall. ③ Install the battery module on the wall bracket.

④ Install the anti-tipping plates on both sides and ⑤ Mark the hole position to fix the battery module.

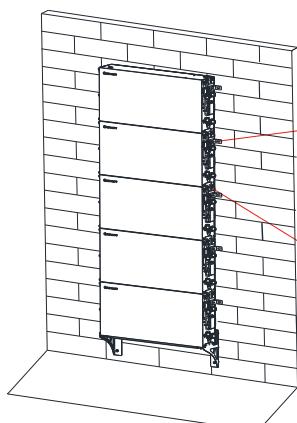
4



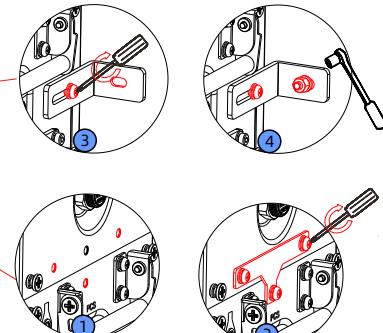
① Mark the hole positions to install the batteries.

② ③ ④ ⑤ Install the M6 expansion bolt and tighten the nut.

5



④ Install the anti-tipping plates on both sides to fix the modules to the wall.



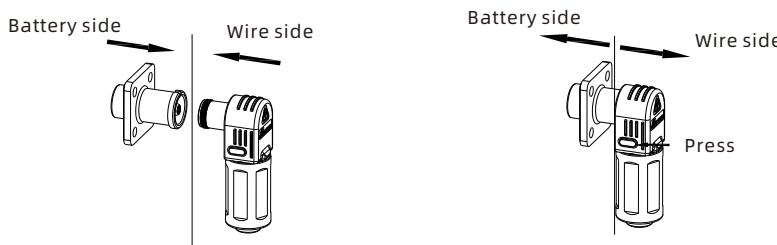
① ② ③ Secure the connecting pieces on both sides of the battery module using the M4x9 screws, and tighten the 6 screws.

5.Electrical Connection

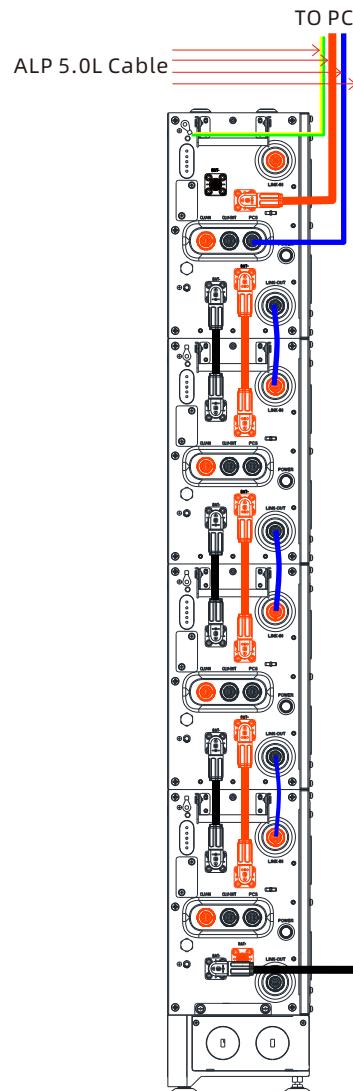
5-1 Communication terminal



5-2 Power terminal



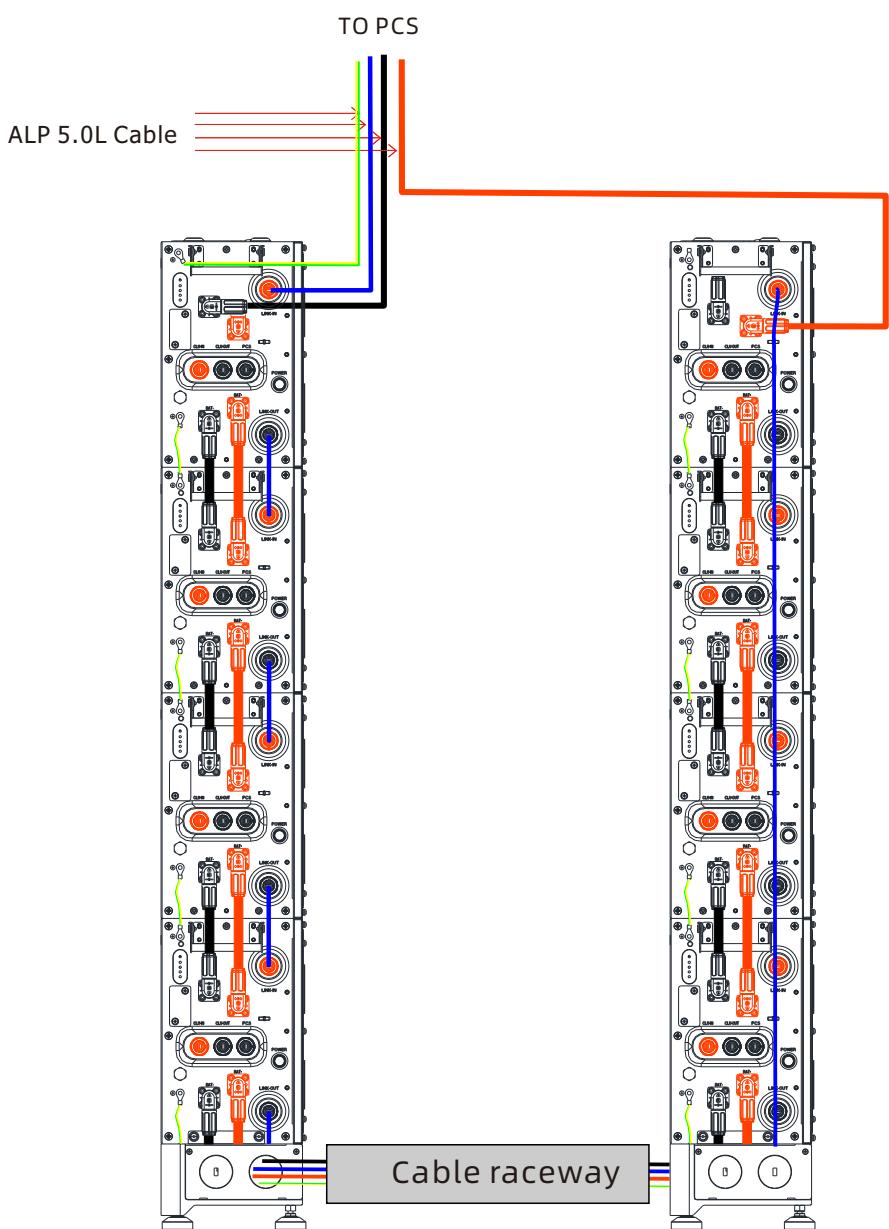
5-3 Single-column wiring



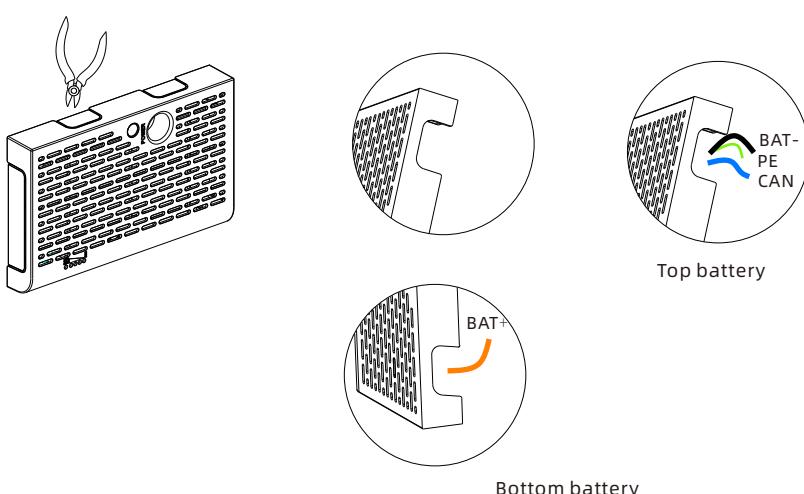
Note:

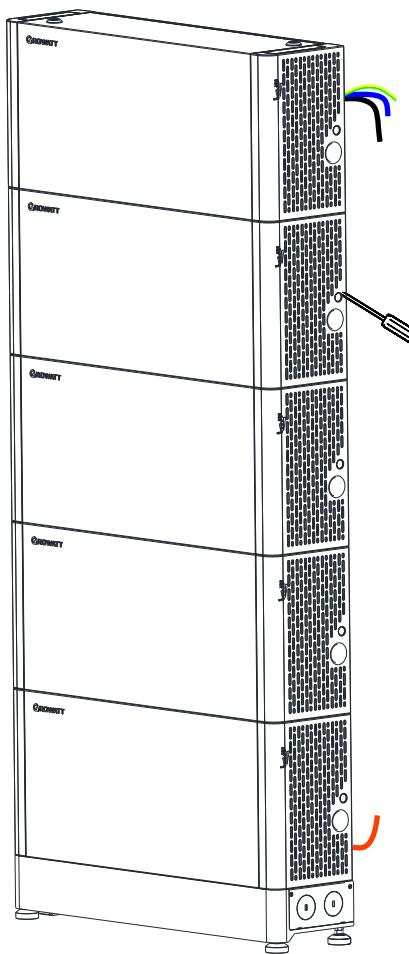
- 1.The battery is not allowed to be installed in the running state, and all the RUN lights of battery modules should be off before installation.
- 2.To ensure system security, do not forget to install the ground cable.
- 3.For the power cables connected to PCS, the positive power cable is drawn from the top battery module, and the negative power cable is drawn from the bottom battery module.

5-4 Two-column wiring



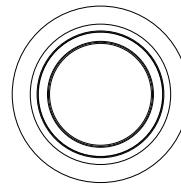
5-5 Install the Trim Cover





6. Power on and off the Battery

6-1 Power On



POWER

1. Press the POWER button for 3 seconds. Observe the LED indicator on the panel.
2. The battery LED indicator lights up to indicate that the battery has been turned on.

Power on the PACK by pressing the power button($t>3S$)

Serial	Procedures	Acceptation criteria
1	Connect the battery and PCS	Make sure the wiring harnesses are well connected
2	Press the POWER button for three to five seconds. Observe the LED indication on panel.	1.If both RUN/ALM and SOC lights are on normally, PACK is powered on successfully. 2.If RUN/ALM light turns red, there is a fault. Do not restart the equipment until the fault is rectified.

Power on the PACK by PCS

1	Connect the battery and PCS	Make sure the wiring harnesses are well connected
2	Power on the PCS. PCS outputs a wake up signal of 5V or an output main circuit voltage signal of 46-58V	1.If both RUN/ALM and SOC lights turn on normal, PACK powers on successfully. 2.If RUN/ALM light turns red, there is a fault and you should solve it before powering on the PACK again.

6-2 Power off

Press the power button to turn off the PACK and five LED lights will flicker three times. If multiple packs are connected in parallel, turning off one of the PACKs will shut down the whole battery system.

7. Service and contact

Shenzhen Growatt New Energy Co., Ltd.

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