













Quick Installation Guide

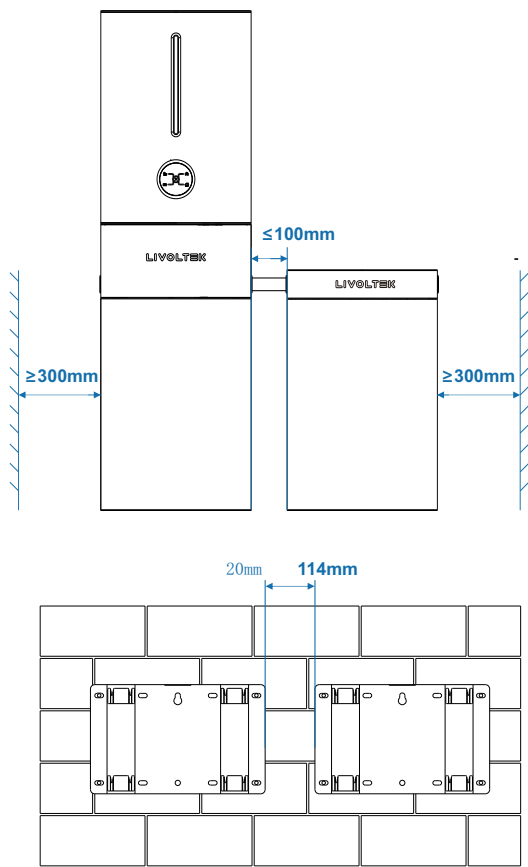
Residential Energy Storage System

I Preparation Tools

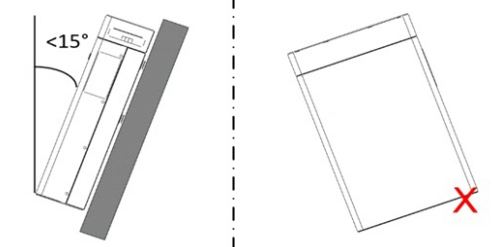
| | | | |
|--|--|---|--|
|  Bit $\phi 10$ Hammer drill |  Marker Pen |  Cross screwdriver |  Hexagon wrench set |
|  Rubber hammer |  Tape ruler |  Multi-meter |  Utility knife |
|  Safety Goggle |  Dustproof cover |  Insulated Gloves |  Safety Shoes |

III Installation Instructions

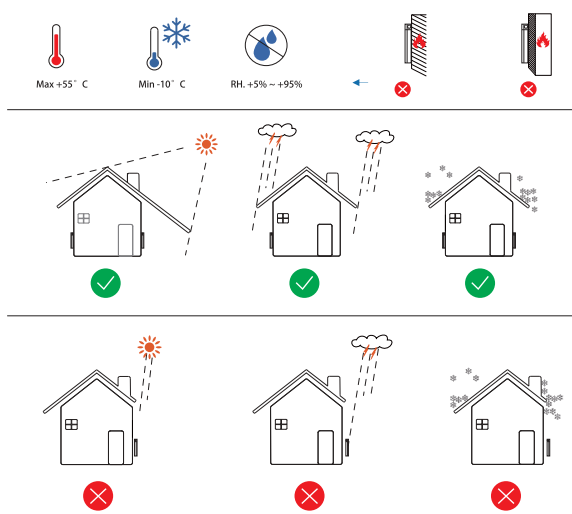
A Installation Space



B Angel Requirement



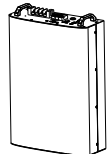
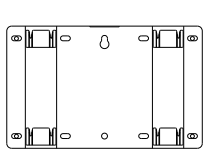
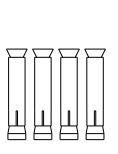




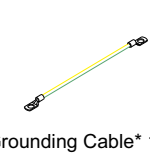
C Location Requirement









II

Packing List




A Basic Packing List:

| | | | |
|---|---|--|---|
|  Battery* 1 |  Bracket* 1 |  Expansion Crew* 4 |  BMS Cable* 1 |
|  Quick Guide* 1 |  User manual* 1 |  MSDS Files* 1 |  Grounding Cable* 1 |




B Additional Accessories Pack:

| | | | |
|-------------------|--|-------------------|---|
| Package A: |  Positive power cable to Inverter *1 (4AWG,360mm) | Package B: |  Positive power cable for parallel *1 (4AWG,600mm) |
| |  Negative power cable to Inverter *1 (4AWG,360mm) | |  Negative power cable for parallel *1 (4AWG,600mm) |
| |  RJ45 CAN RESISTOR *4 | |  Connection Area Cover Kit *1 |

Package C:

| |
|---|
|  Positive power cable to Inverter *1 (4AWG,360mm) |
|  Negative power cable to Inverter *1 (4AWG,1200mm) |
|  RJ45 CAN RESISTOR *1 |

Package D:

| |
|---|
|  Positive power cable to Inverter *1 (4AWG,360mm) |
|  Negative power cable to Inverter *1 (4AWG,2300mm) |
|  RJ45 CAN RESISTOR *1 |

Compound Modes:

All-In-One system:
(only 1 battery with the Livoltek hyper inverter)
Package A * 1

2 Batteries in parallel:
Package B * 1 Package C * 1

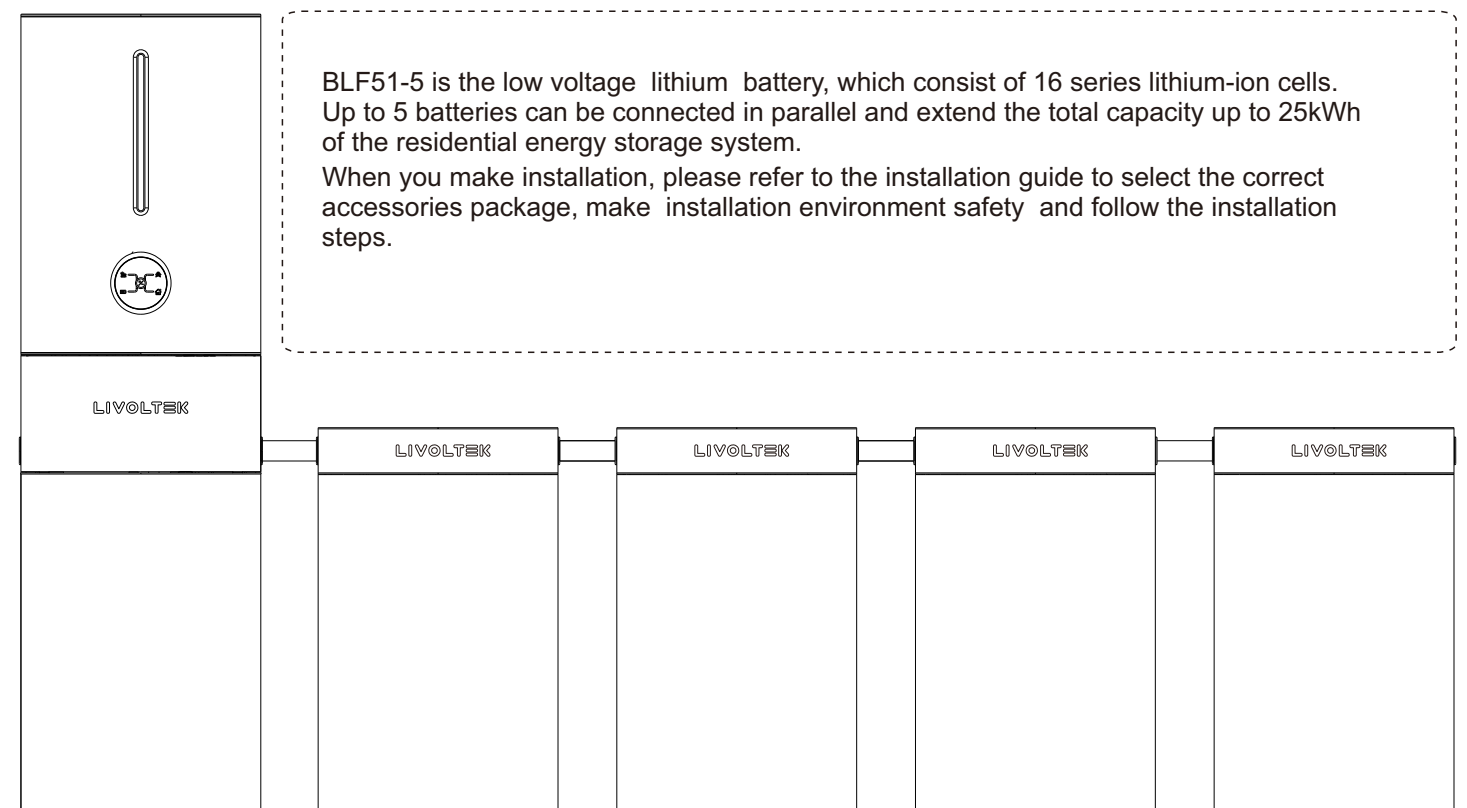
3 Batteries in parallel:
Package B * 2 Package C * 1

4 Batteries in parallel:
Package B * 3 Package D * 1

5 Batteries in parallel:
Package B * 4 Package D * 1

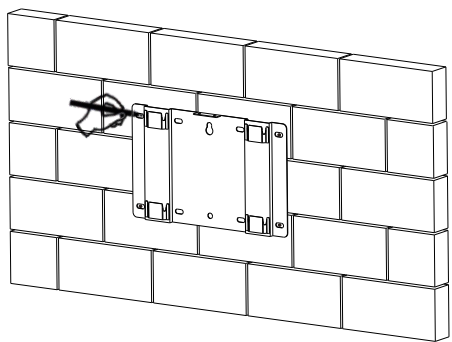
Tips:
Please select the compound mode of accessory packages depending on the installation mode.

IV Installation Overview

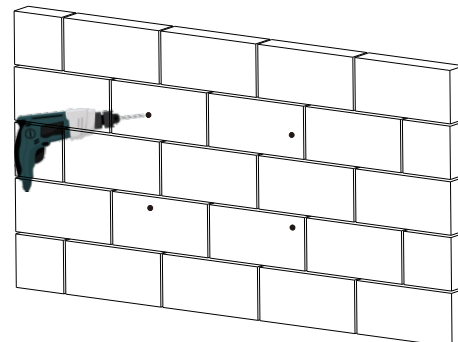


V Battery Installation

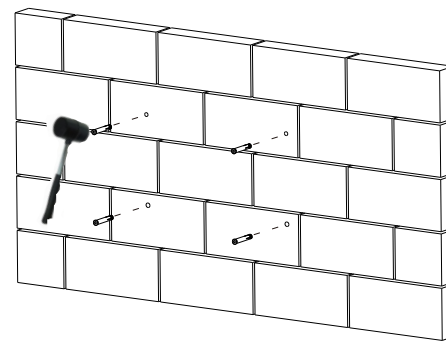
1 Mark the position of holes of 4 corners of the bracket by marker pen.



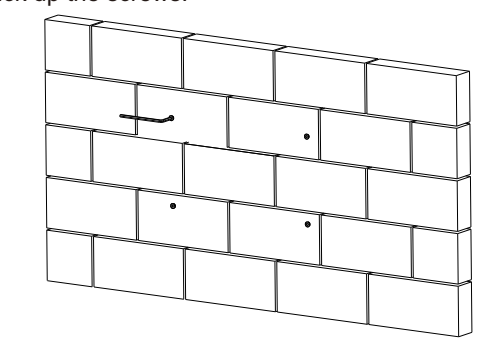
2 Drill 4 holes with a $\phi 10$ drill bit. The depth of holes is at least 65mm.



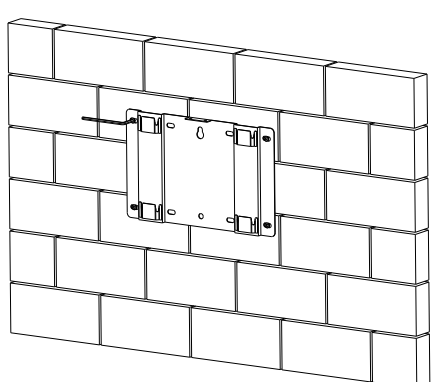
3 Hammer the expansion anchor bolts into the holes.



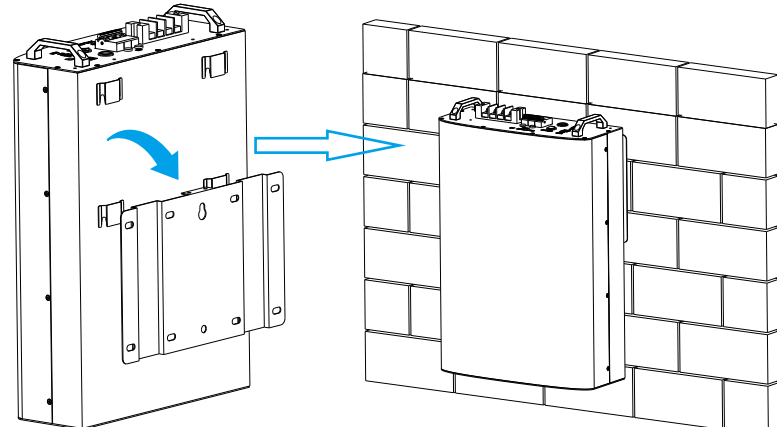
4 Screw the expansion bolts clockwise tightly then release the expansion bolts counterclockwise and pick up the screws.



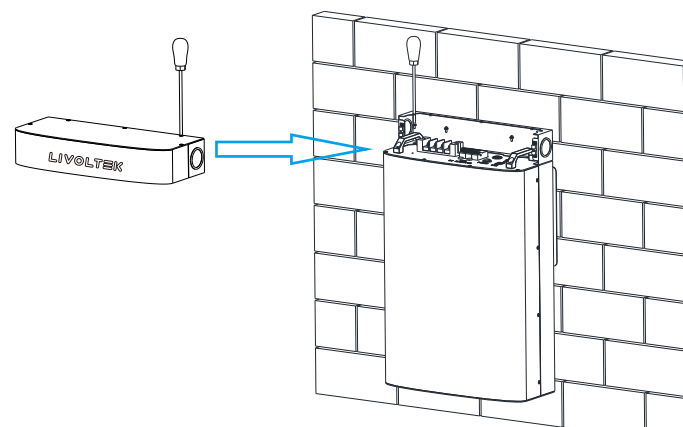
5 Screw the bracket on the wall by the hexagon socket wrench.



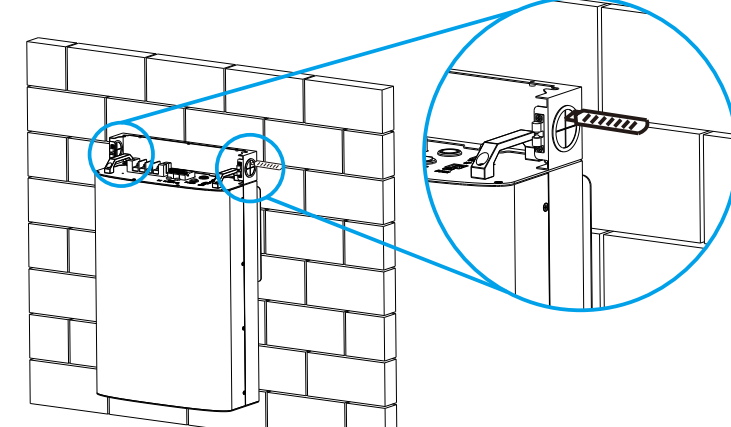
6 Lift and hang the battery to the bracket.



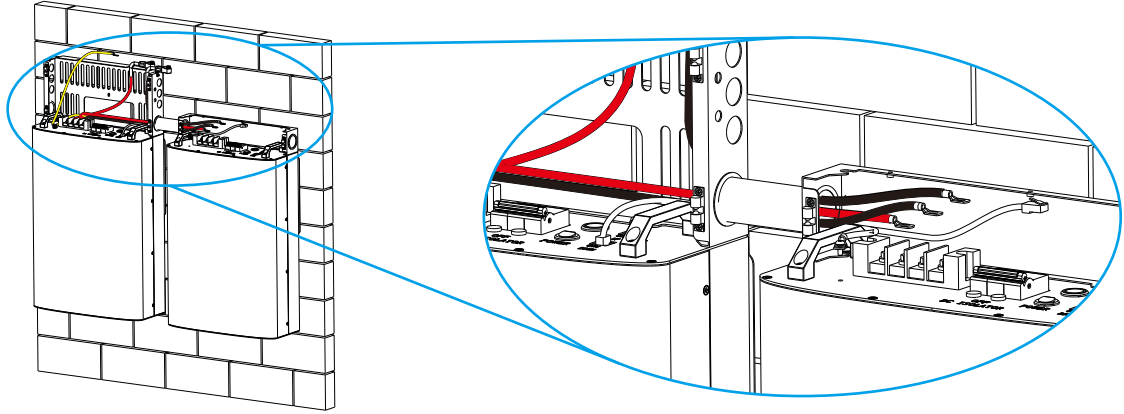
7 Remove screws of the upper cover of the connection area then install the back cover part of it to the battery.



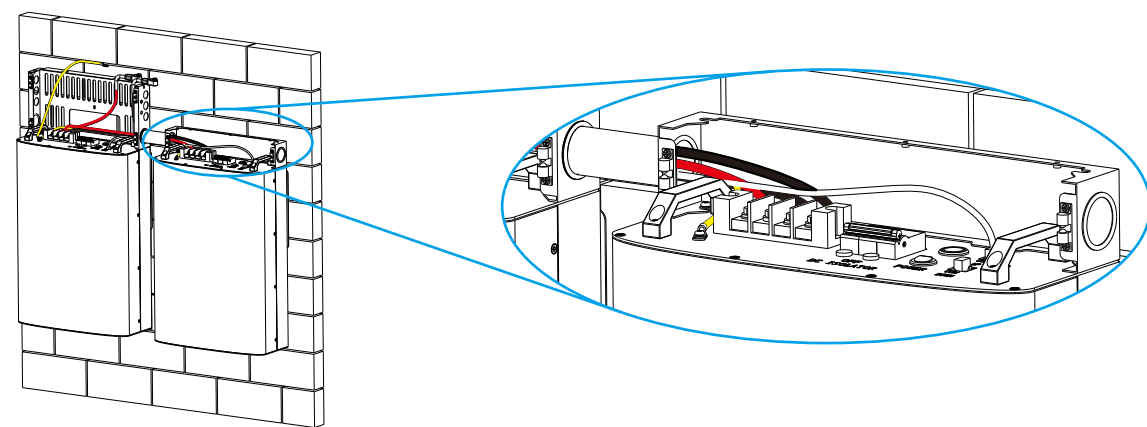
8 Cut the cross through both sides of silicone rubber sleeves by a utility knife.



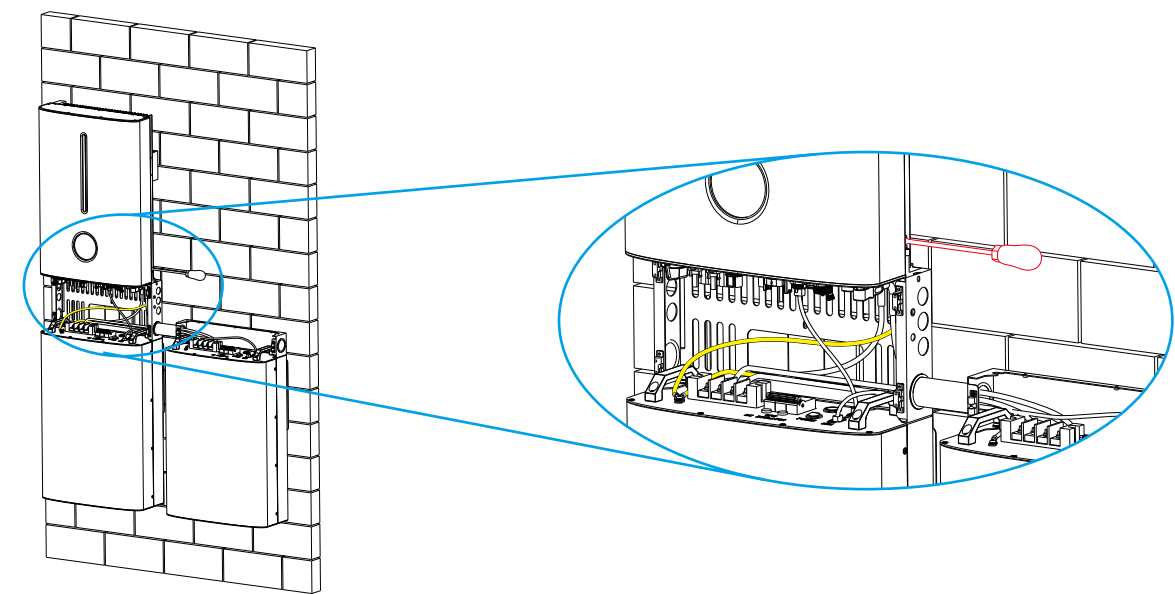
- 1 Before you make cables connection, please disconnect all breakers. Pass cables you need through the cross hole by one side and run the cables through the corrugated pipe to next battery.



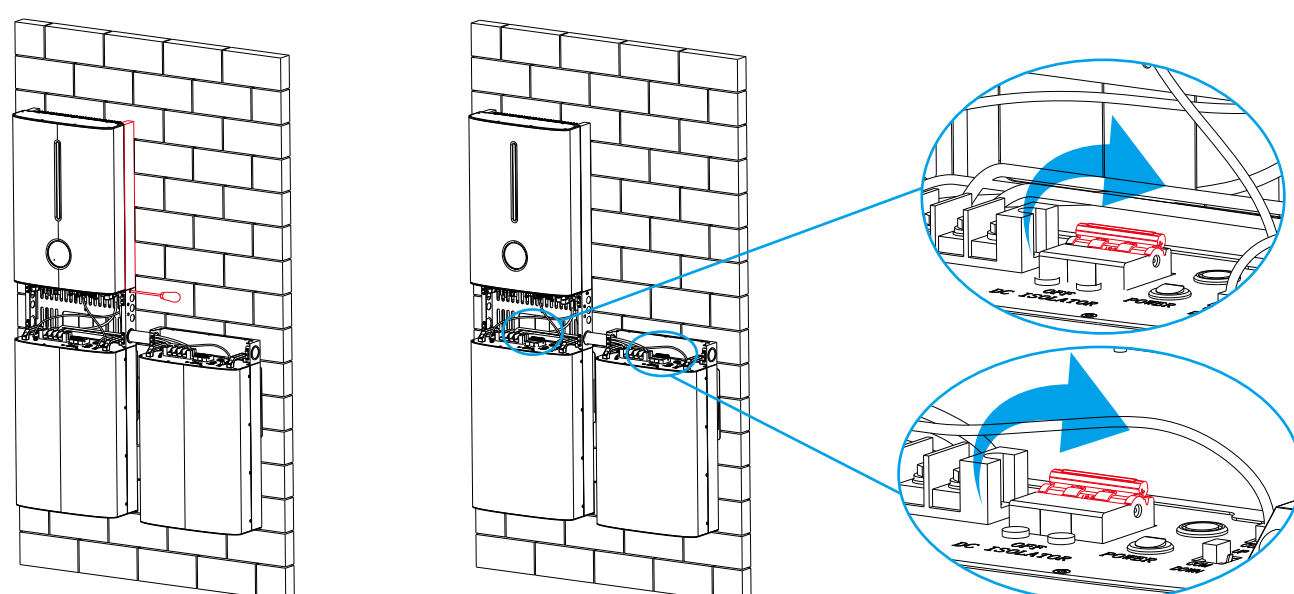
- 2 Install the OT terminals end of power cables, grounding cable to the battery and insert the RJ45 connector of the communication cable into the COM UP port of battery.



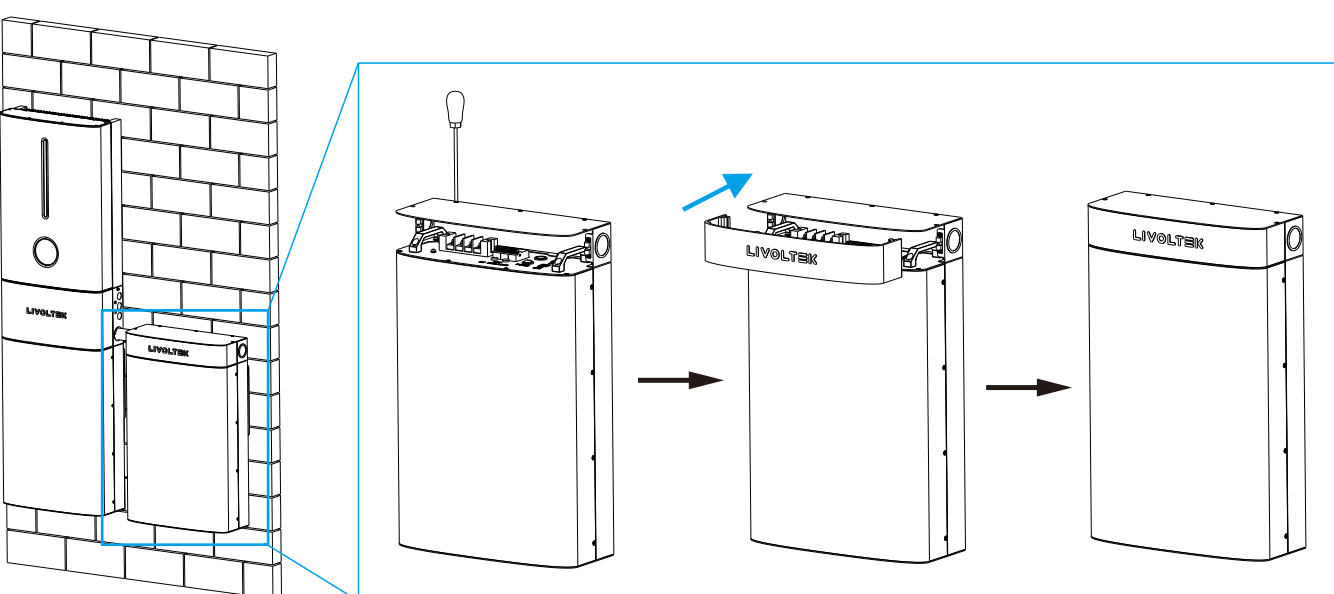
- 3 Install the OT terminals ends of grounding cable to the grounding point of the battery, then connect it the grounding point of inverter.



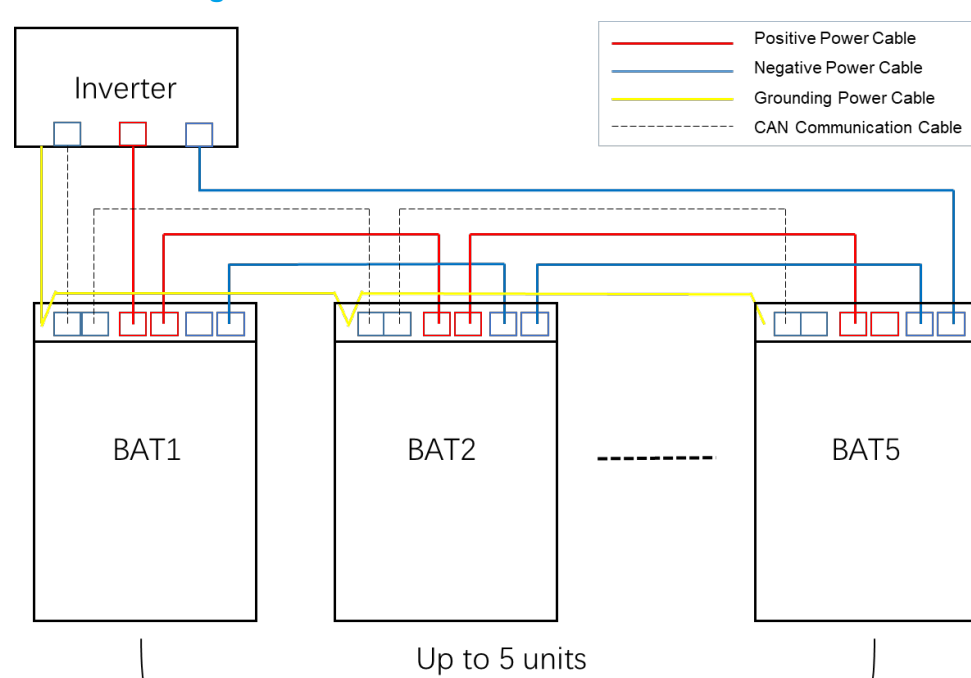
- 4 Install the left and right side frames by a cross screwdriver, then turn on DC breakers of batteries.



- 5 Put on the upper cover and fix it then buckle the Middle Cover.



Batteries In Parallel Connection Diagram:



A LED Indicator

The LED indicates the operating status of the battery.

| LED | Explanation |
|-------|---|
| Green | Green light indicates the battery works well. |
| Red | Fault occurs in the battery. SOC ≤ 8%. |

If the LED turns red and lasts for more than 6 hours, which means faults occur in the battery, please contact with our technical supporter for help.

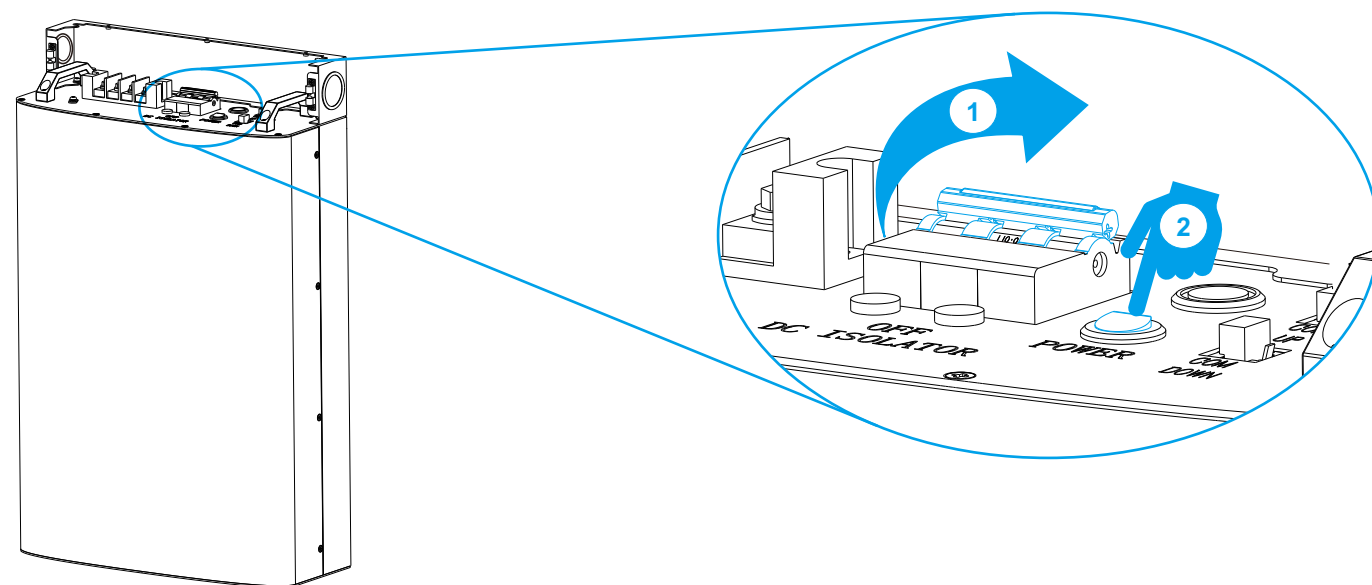
B Checking before Commissioning

Please follow steps before starting the battery.

1. Check that the battery system has been installed completely.
2. Check that the battery system is in good cosmetic condition.
3. Check that the cables at the output of the battery system are correctly connected to the positive and negative terminals of the battery and inverter to avoid misconnection and reverse connections.

C Commissioning Procedure

1. Connect the DC breaker of all the batteries manually, then switch on all batteries. Then BMS will enter the self-test state.
2. The wait light should be green and on, which indicating the battery system is powered up and operating correctly.



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