

Quick Installation Guide

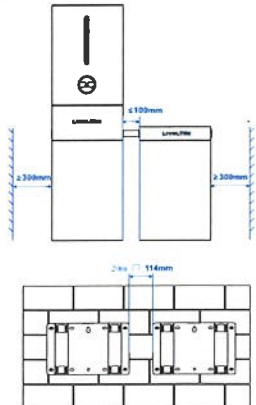
Residential Energy Storage System

I Preparation Tools


 Bit Φ10 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

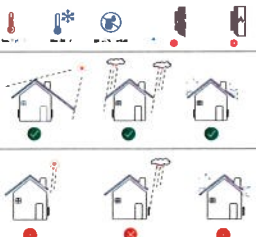
A Installation Space



B Angel Requirement











C Location Requirement



Packing List

Basic Packing List:

 Battery * 1	 Bracket * 1	 Expansion Crew* 4	 BMS Cable* 1
 Quick Guide* 1	 User manual* 1	 NDSIS Files* 1	 Grounding Cable* 1

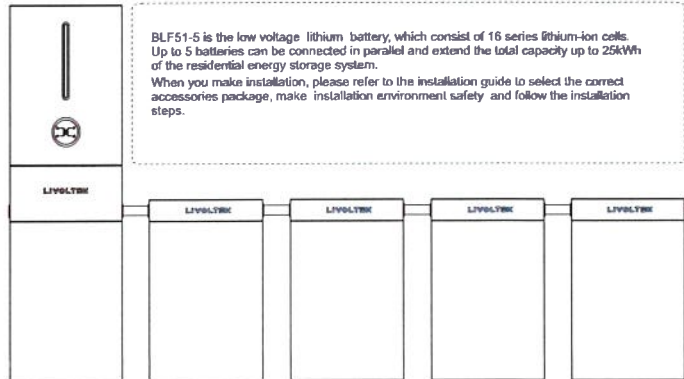
Additional Accessories Pack:

<p>Package A:</p> <ul style="list-style-type: none"> Positive power cable to Inverter *1 (4AWG,360mm) Negative power cable to Inverter *1 (4AWG,360mm) RJ45 CAN RESISTOR *4 	<p>Package B:</p> <ul style="list-style-type: none"> Positive power cable for parallel *1 (4AWG,600mm) Negative power cable for parallel *1 (4AWG,600mm) Connection Area Cover Kit *1
<p>Package C:</p> <ul style="list-style-type: none"> Positive power cable to Inverter *1 (4AWG,360mm) Negative power cable to Inverter *1 (4AWG,1200mm) RJ45 CAN RESISTOR *1 	<p>Package D:</p> <ul style="list-style-type: none"> Positive power cable to Inverter *1 (4AWG,360mm) Negative power cable to Inverter *1 (4AWG,2300mm) RJ45 CAN RESISTOR *1

Compound Modes:

<p>All-in-One system: (only 1 battery with the Livoltex hyper inverter) Package A * 1</p>	<p>2 Batteries in parallel: Package B * 1 Package C * 1</p>
<p>3 Batteries in parallel: Package B * 2 Package C * 1</p>	<p>4 Batteries in parallel: Package B * 3 Package D * 1</p>
<p>5 Batteries in parallel: Package B * 4 Package D * 1</p>	<p><i>Tips:</i> Please select the compound mode of accessory packages depending on the installation mode.</p>

IV Installation Overview

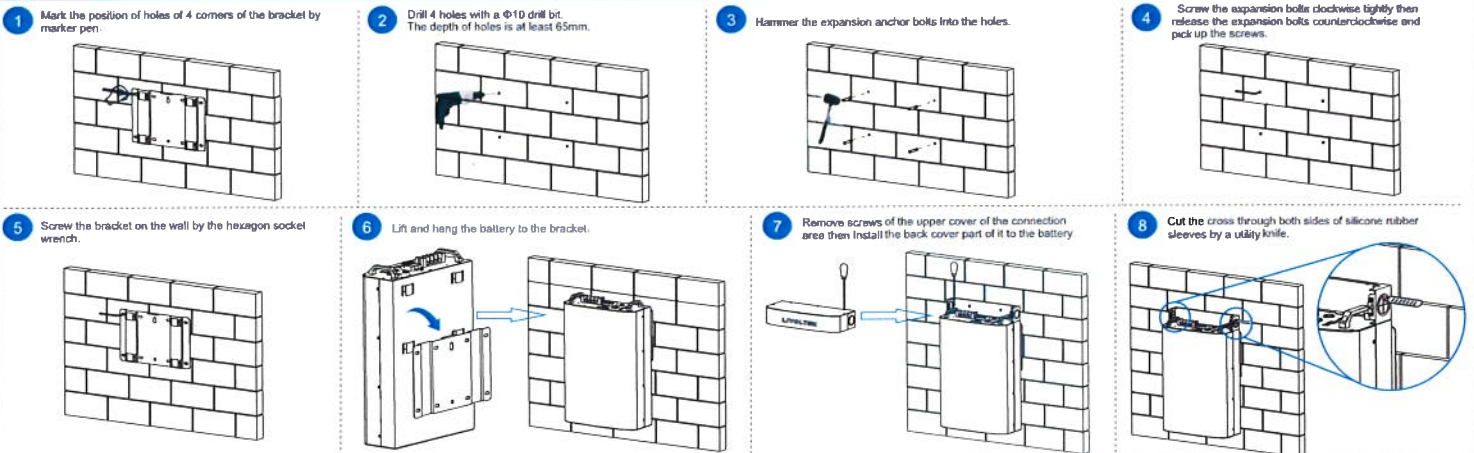


BLF51-5 is the low voltage lithium battery, which consist of 16 series lithium-ion cells. Up to 5 batteries can be connected in parallel and extend the total capacity up to 25kWh of the residential energy storage system.

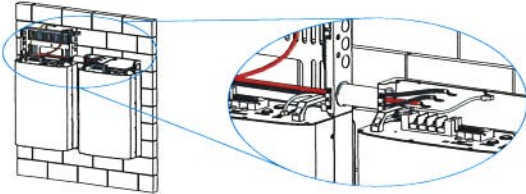
When you make installation, please refer to the installation guide to select the correct accessories package, make installation environment safety and follow the installation steps.

V Battery Installation

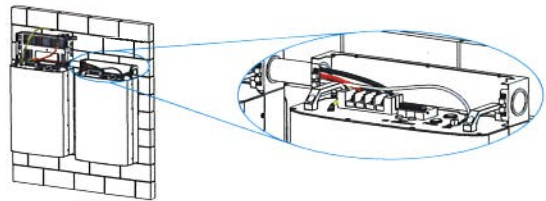
- Mark the position of holes of 4 corners of the bracket by marker pen.
- Drill 4 holes with a Φ10 drill bit. The depth of holes is at least 65mm.
- Hammer the expansion anchor bolts into the holes.
- Screw the expansion bolts clockwise tightly then release the expansion bolts counterclockwise and pick up the screws.
- Screw the bracket on the wall by the hexagon socket wrench.
- Lift and hang the battery to the bracket.
- Remove screws of the upper cover of the connection area then install the back cover part of it to the battery.
- Cut the cross through both sides of silicone rubber sleeves by a utility knife.



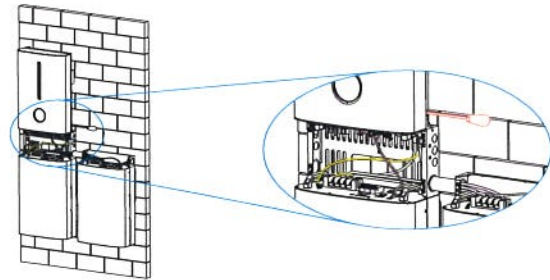
- 1 Before you make cables connection, please disconnect all breakers. Pass cables you need through the cross hole by one side and run the cables through the corrugated pipe to next battery.



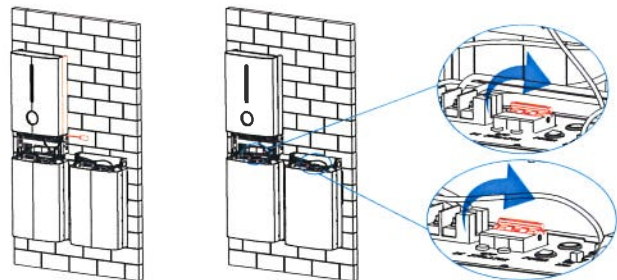
- 2 Install the OT terminals end of power cables, grounding cable to the battery and insert the RJ45 connector of the communication cable into the COM UP port of battery.



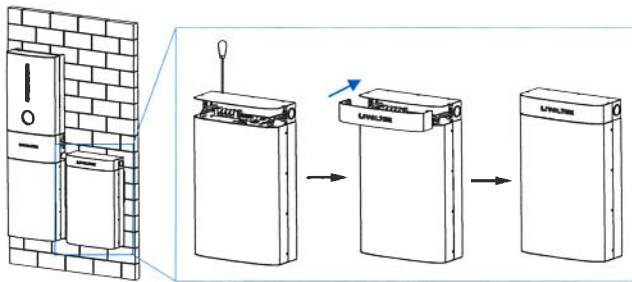
- 3 Install the OT terminals ends of grounding cable to the grounding point of the battery, then connect it the grounding point of inverter.



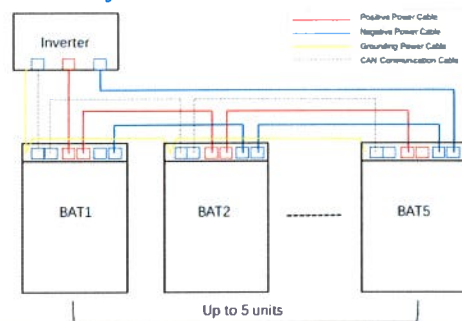
- 4 Install the left and right side frames by a cross screwdriver, then turn on DC breakers of batteries.



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



Batteries In Parallel Connection Diagram:



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.

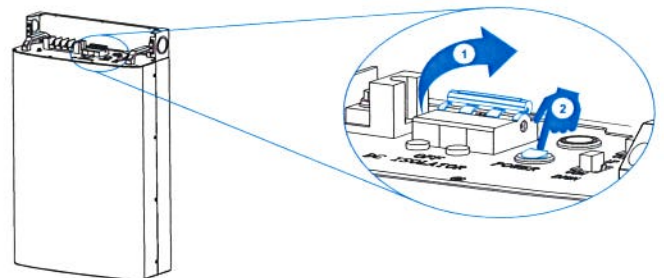
Checking before Comissioning

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.

Comissioning 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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