

SAJ

Guide of connections of batteries



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Battery brand



Brand	Model
SAJ	B2-5.0-HV1
Pylon	SC0500/ H48050
Dyness	HV9637

Note: Single phase H2 can attach up to 4*battery modules.
Three phase H2 can attach up to 5*battery modules.

The naming rule of B2

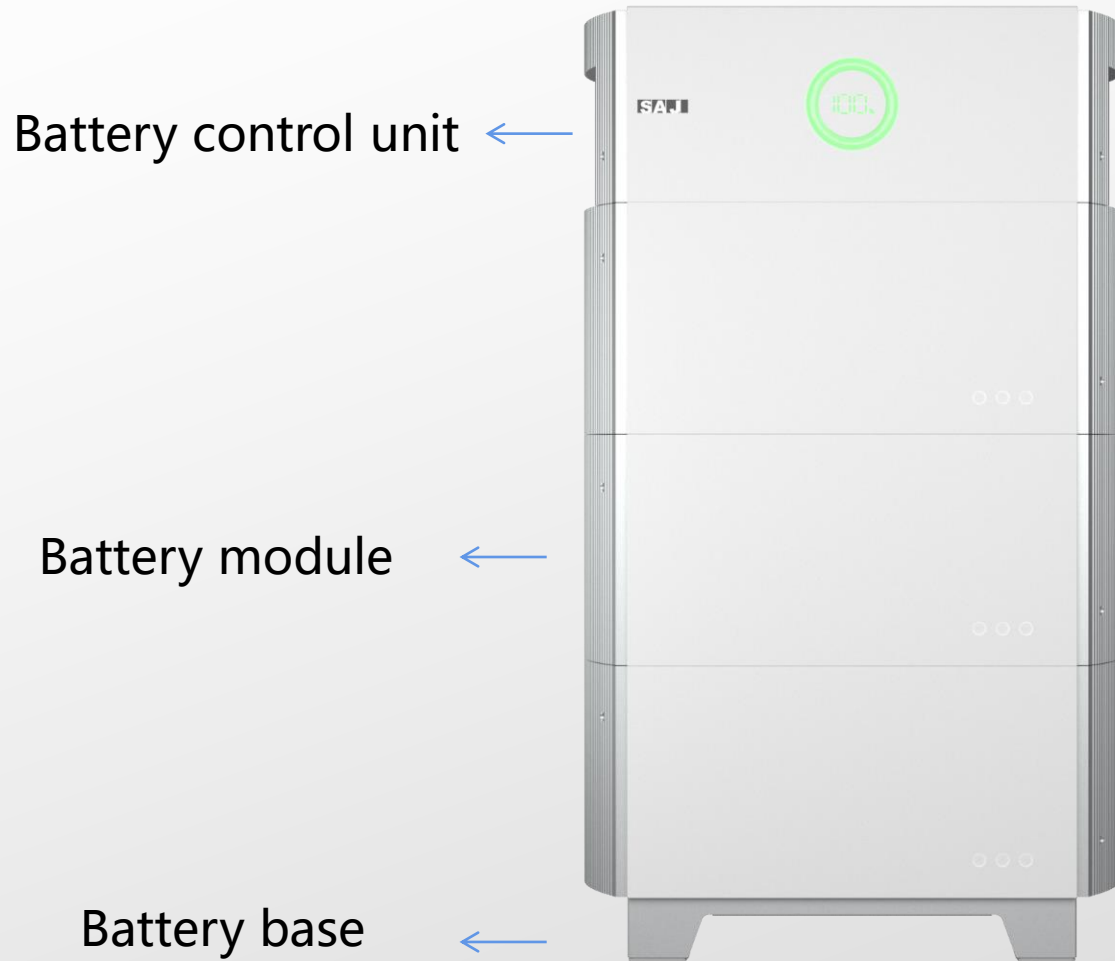
B2-5.0-HV1






① ② ③ ④



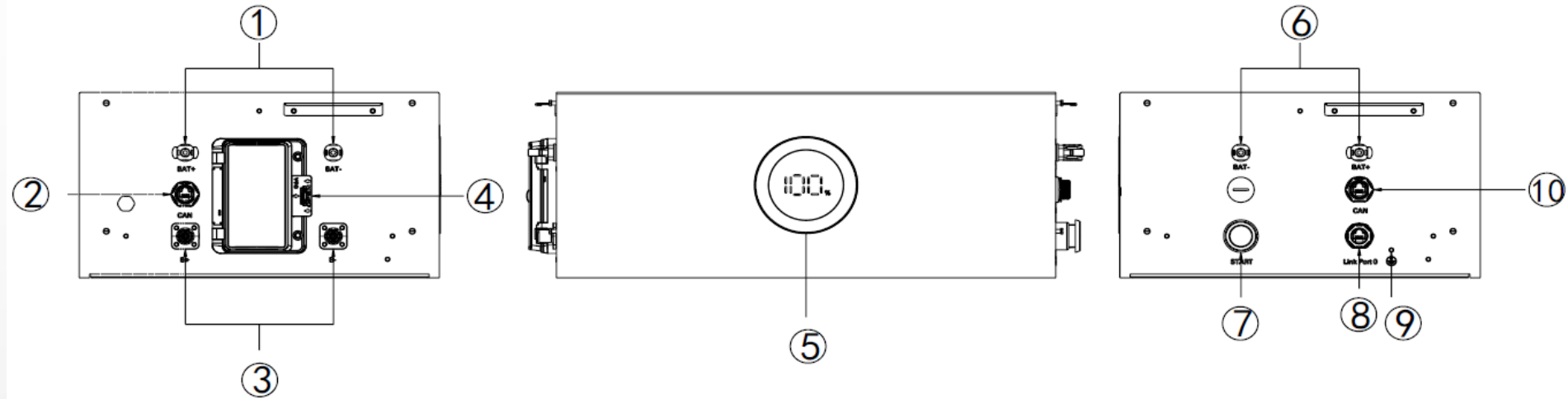
- ① Battery. It has a Lithium iron Battery.
- ② Second generation technology.
- ③ Battery capacity is 5.0kWh.
- ④ Battery voltage is high voltage

Introduction of B2 LED indicate



Display	Status	Description
Ring Light		Solid Green The battery is in normal state
		Breathing Mode The battery is in the initialization or waiting state
		Solid Red An error occurs
LED Panel 1		Breathing Mode Software is upgrading in the battery
		Off Power off
LED Panel 1	100%	SOC of the battery

Electrical interface of battery control unit

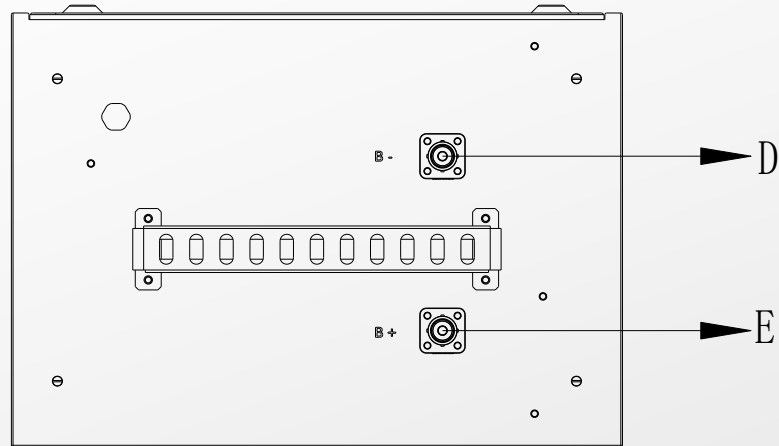


Position	Name
1	BAT+ - port (to inverter)
2	Communication port (to inverter)
3	BAT+ - port (to battery)
4	Circuit breaker
5	Display

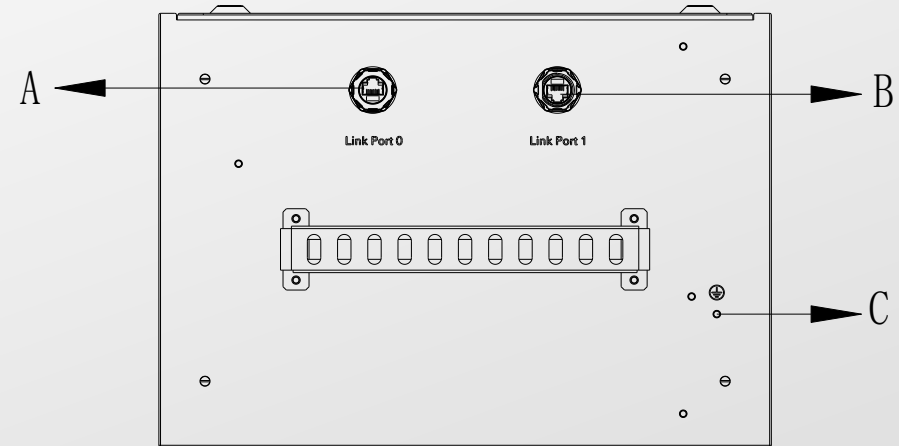
Position	Name
6	BAT+ - port (For parallel connection)
7	Main switch
8	Communication port (to battery module)
9	Ground
10	Communication port (for parallel connection)

Electrical interface of battery module

Battery left side



Battery right side



Code	Name
A	Link port 0
B	Link port 1
C	Ground port
D	BAT - port
E	BAT + port

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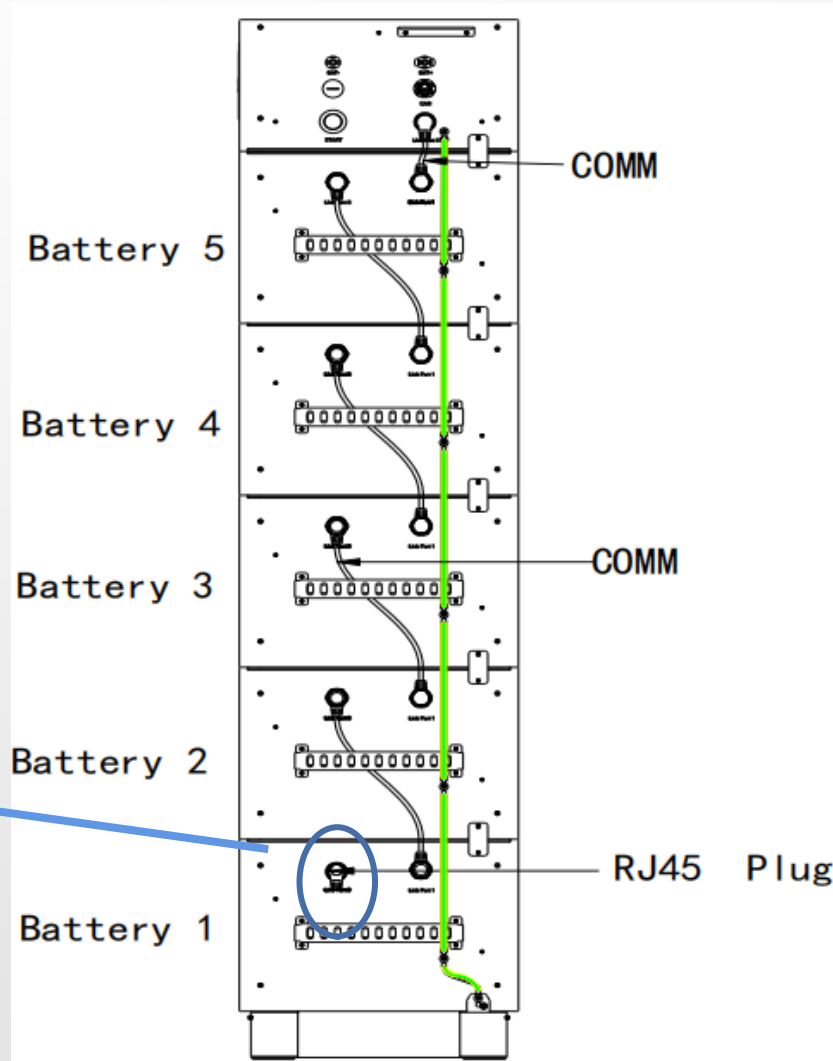
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Connection

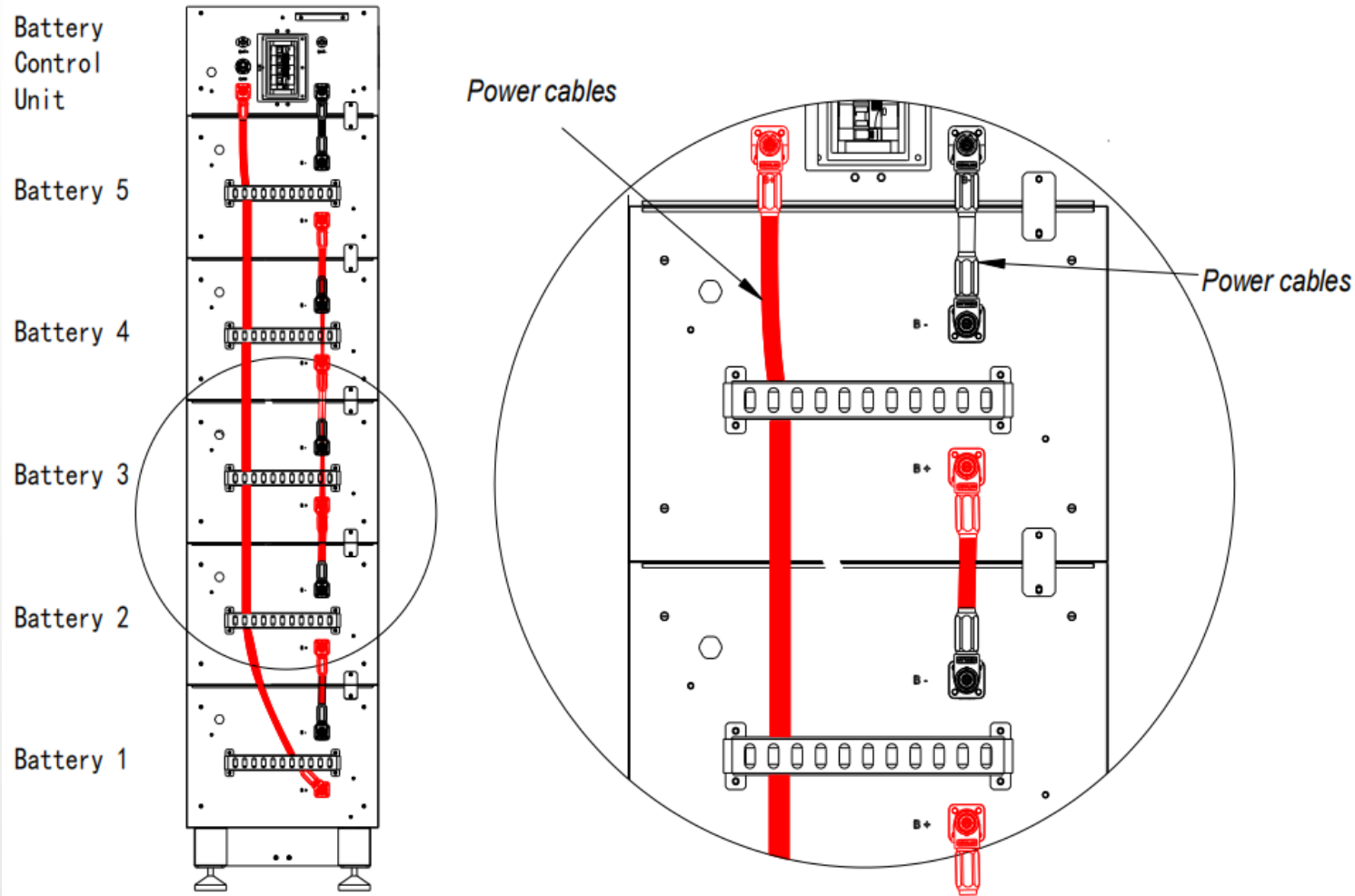


Step 1:
Connecting battery COMM cable

Port0 should always be connected to
Port1

Note: The battery 1 should be inserted
RJ45 Plug, otherwise communication will
be messed up.

Connection



Step 2:

Connect the power cable from B- port of battery control unit to B- port of the battery 5 (the battery number can be varied, it should be depended on the number of battery modules in the system).

Step 3:

Connect power cable from B+ port of battery 5 to B- port of battery 4.

Step 4:

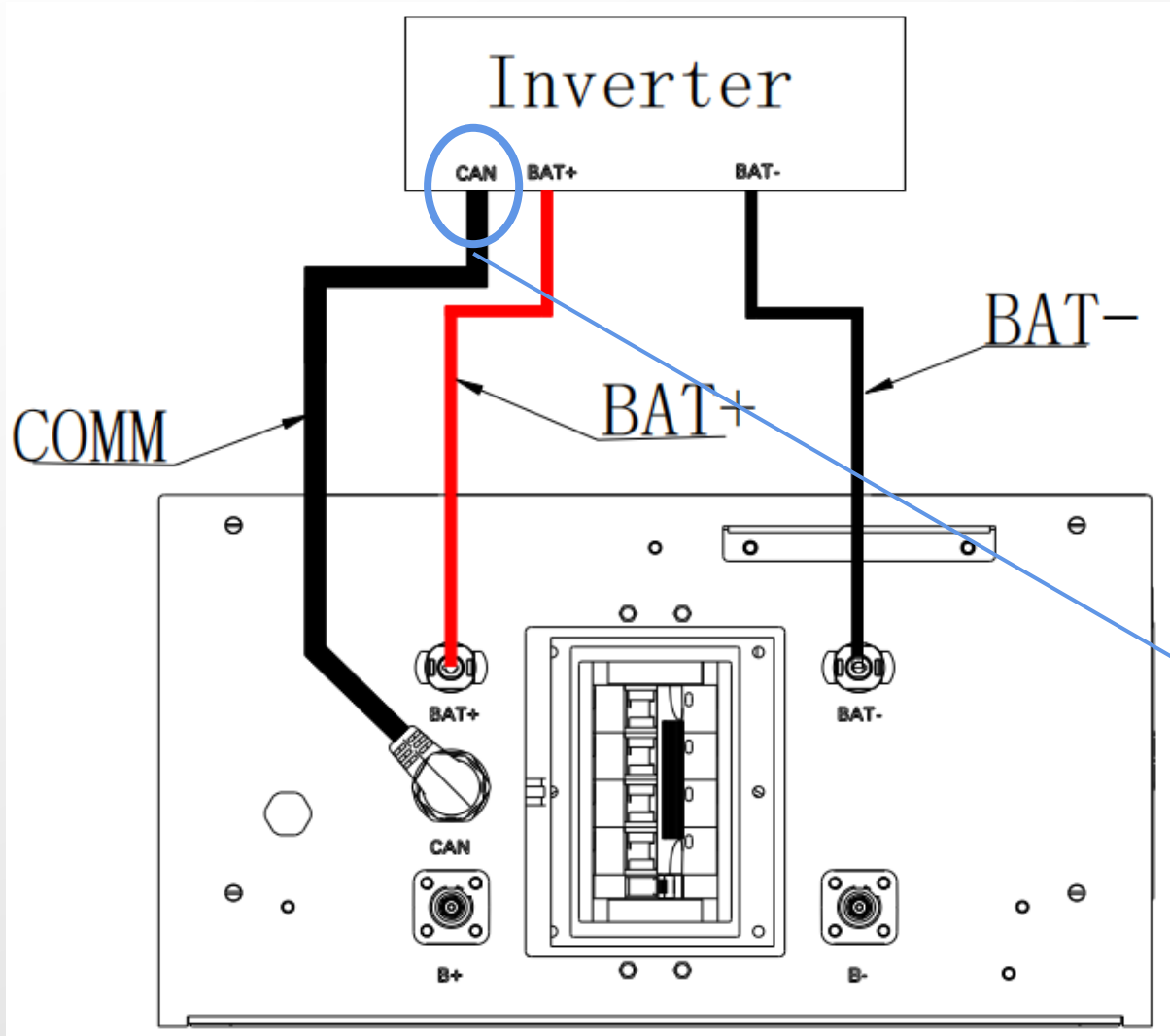
Repeat step 9 to connect the rest of the battery modules.

Step 5:

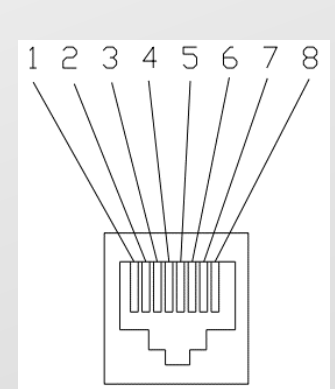
Connect the BAT+ from battery control unit to B+ of battery 1.

Note: Please follow the following diagrams to connect cables.

Connection



Step 6:
Connect battery and inverter.



Code	Can
4	CAN-H (Blue)
5	CAN-L (White-blue)

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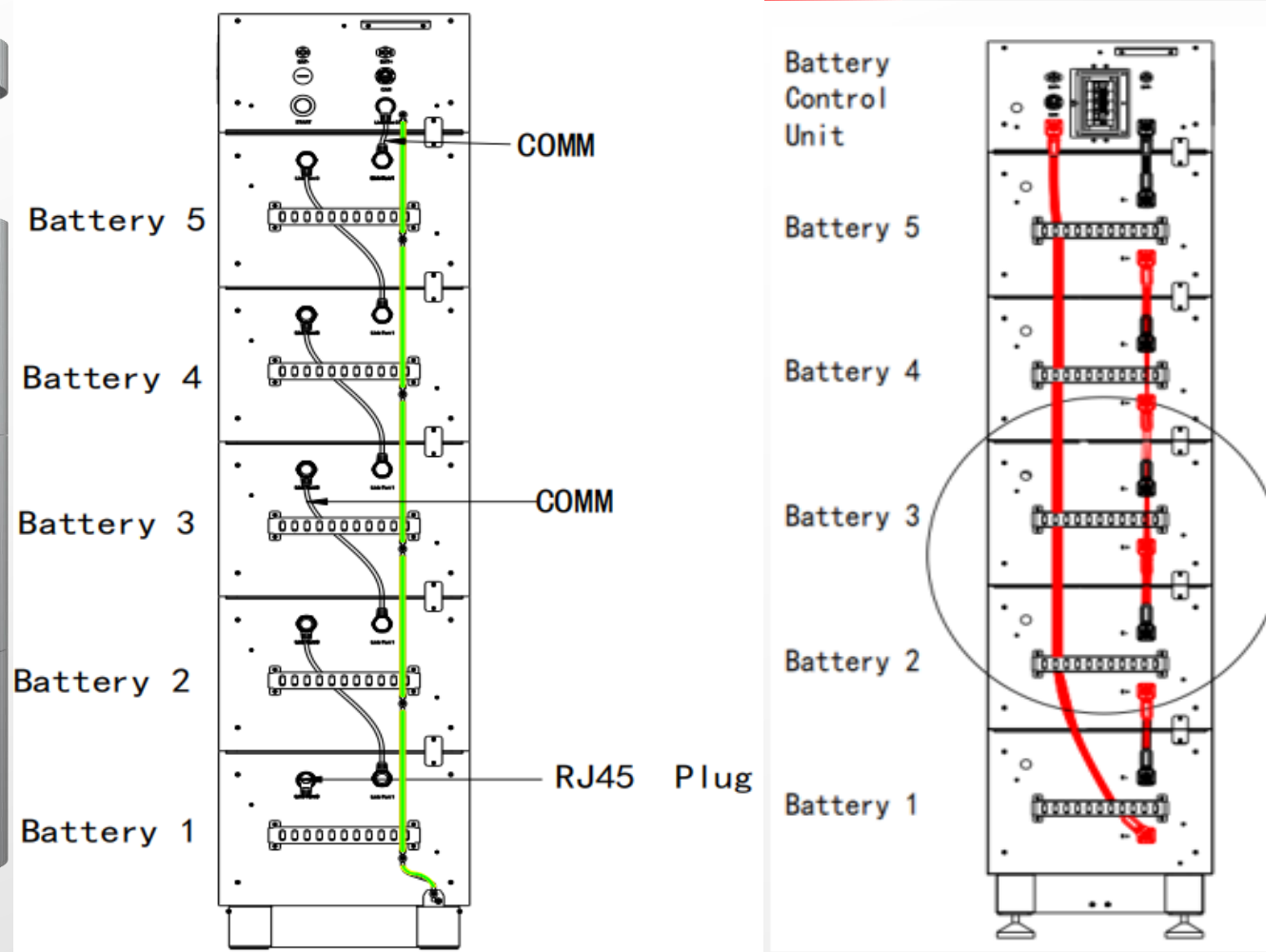
**03 Connections of
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The further battery parallel function

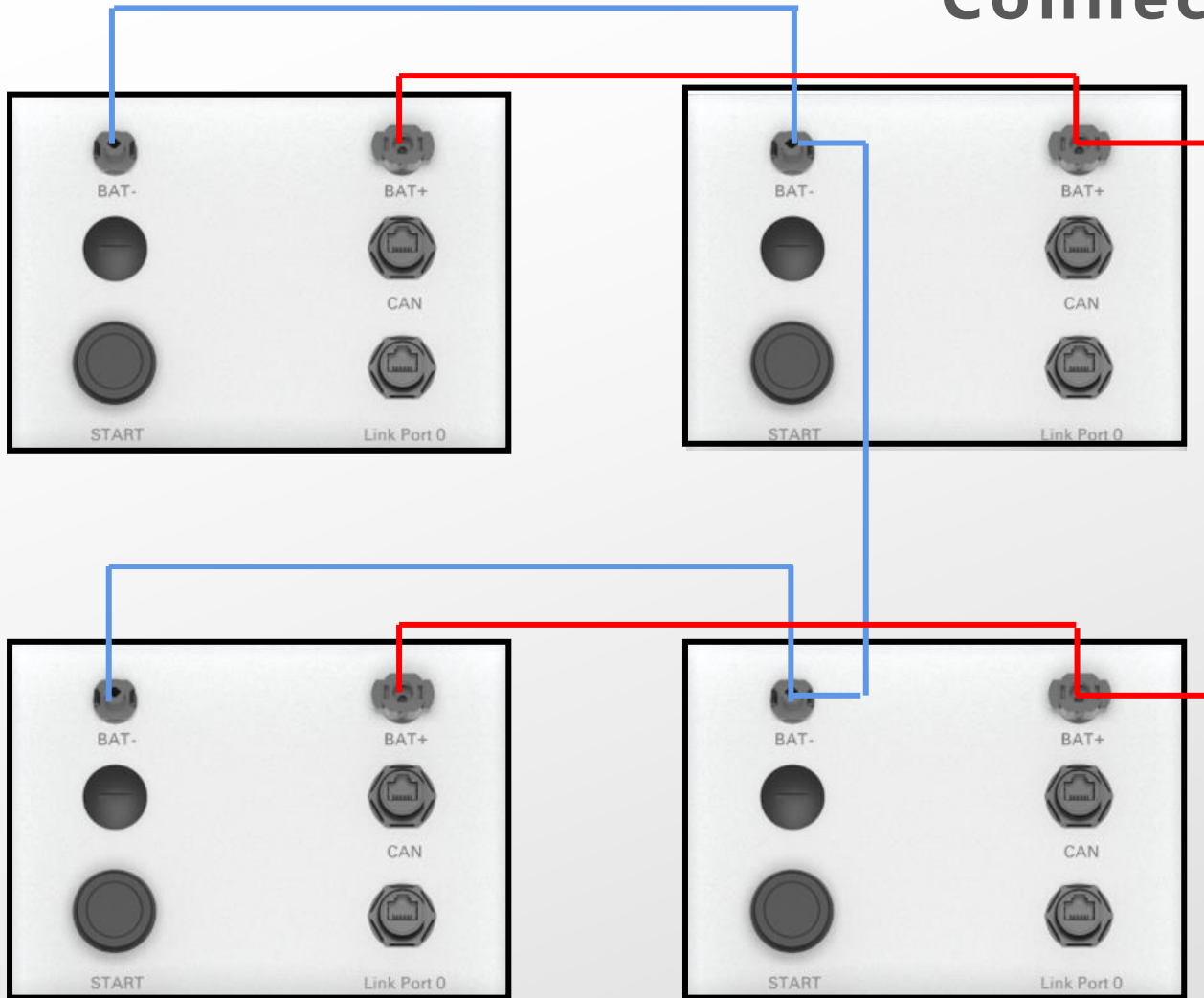


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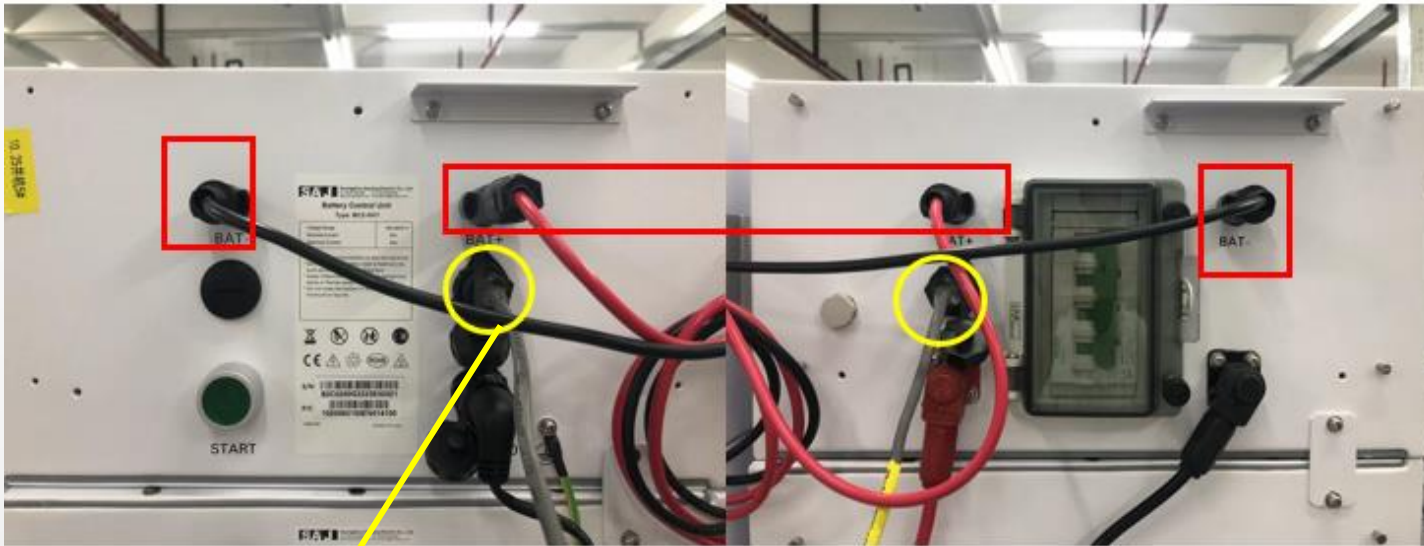
Step 1:
Connect battery
as step 1 to 5 in
section 2 to
complete the
cascade of
battery series.

Connection



Step 2:
Connect the battery control unit of different battery series. The power cable is connected between BAT+port (position 6) of different battery control unit and BAT- port, respectively.

Connection



CAN communication

Step 3:
The communication between different battery control unit is completed through CAN (position 10).

Connection



Step 4:
Connect the battery control units to the inverter. The BAT+port(position 1) of the first battery control unit and the BAT- (position 1) port of the last BMS box are connected to the BAT+ and BAT- port of the battery interface of the inverter, and vice versa.

Step 5:
The first battery control unit should be connected to the inverter via CAN, and the last should be inserted RJ45 Plug



Thank you