

BlueCore Series

Energy Storage System
BIS60-260E C&I Indoor Storage Battery

(BIS60E/BIS80E/BIS100E/BIS120E/BIS140E/BIS160E/
BIS180E/BIS200E/BIS220E/BIS240E/BIS260E)

Quick Installation Guide (BIS220E)

Copyright @ Shenzhen Kstar New Energy Co., Ltd. All rights reserved.
(202607IVer:1.1)

1. Safety Instructions

- The information in this quick installation guide is subject to change due to product updates or other reasons. This guide cannot replace the product labels or the safety precautions in the user manual unless otherwise specified. All descriptions here are for guidance only.
- All operations should be performed by trained and knowledgeable technicians who are familiar with local standards and safety regulations.
- Strictly follow the installation, operation, and configuration instructions in this guide and user manual. The manufacturer shall not be liable for equipment damage or personal injury if you do not follow the instructions.

2 Installation Material Preparation

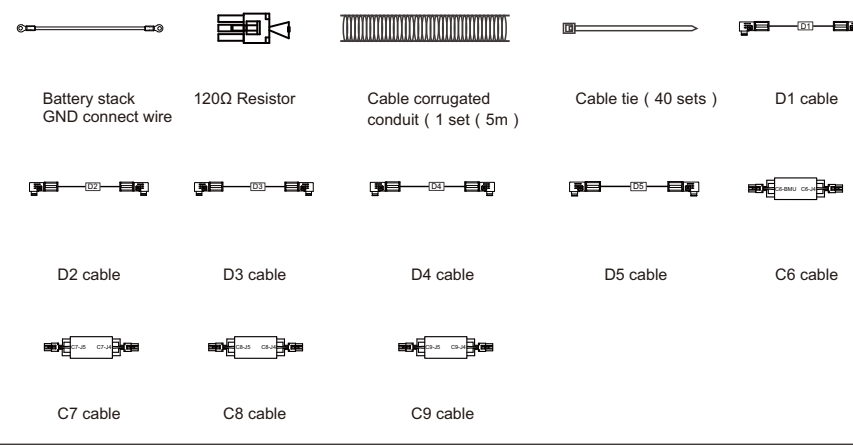
Battery System Material List

High-voltage Box



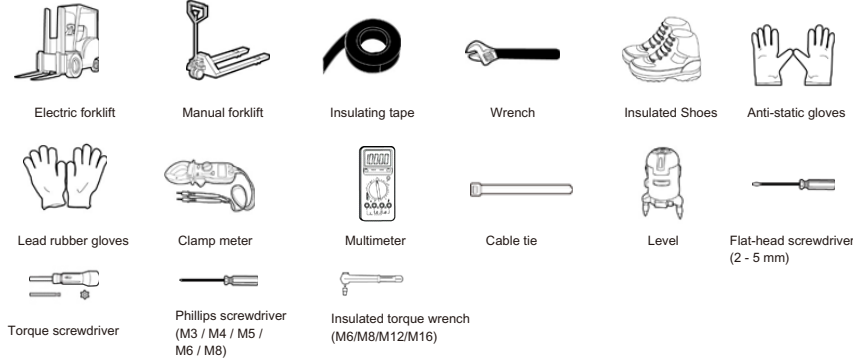
Key Handle Grounding Sheet (2 sets) M4 Screw (8 sets) Grounding Sheet (2 sets)

Wire packaging



Battery stack GND connect wire 120Ω Resistor Cable corrugated conduit (1 set / 5m) Cable tie (40 sets) D1 cable D2 cable D3 cable D4 cable D5 cable C6 cable C7 cable C8 cable C9 cable

Installation Tool Preparation

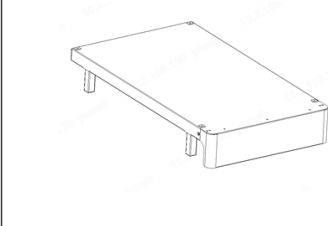


Electric forklift Manual forklift Insulating tape Wrench Insulated Shoes Anti-static gloves Lead rubber gloves Clamp meter Multimeter Cable tie Level Flat-head screwdriver (2 - 5 mm) Torque screwdriver Phillips screwdriver (M3 / M4 / M5 / M6 / M8) Insulated torque wrench (M6/M8/M12/M16)

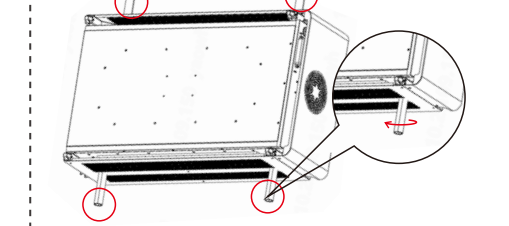
3 Installation Steps

Battery Pack Installation Steps

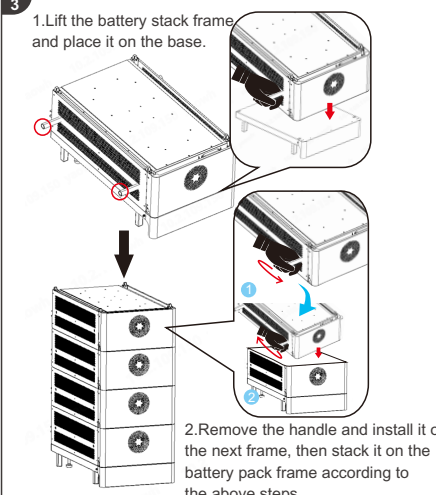
1 Place the base on the ground



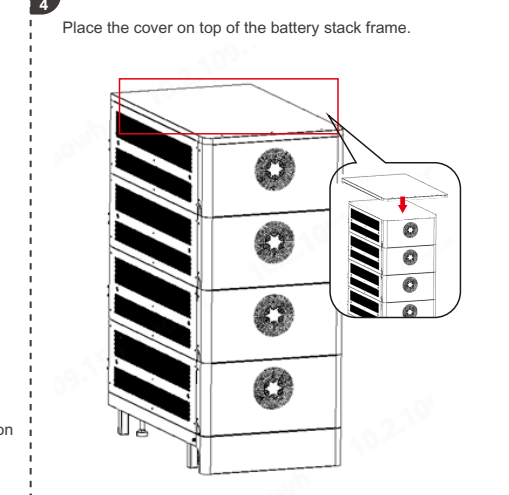
2 Install the four handles on the battery stack frame and tighten them fully.



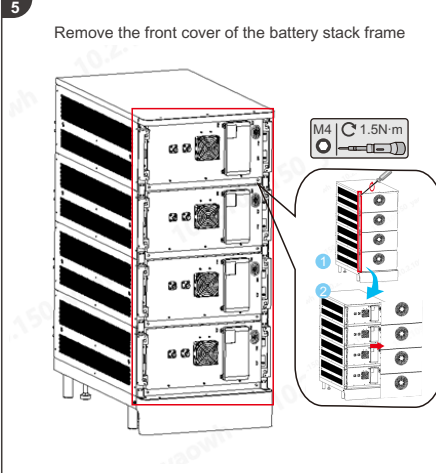
3 1.Lift the battery stack frame and place it on the base.
2.Remove the handle and install it on the next frame, then stack it on the battery pack frame according to the above steps.



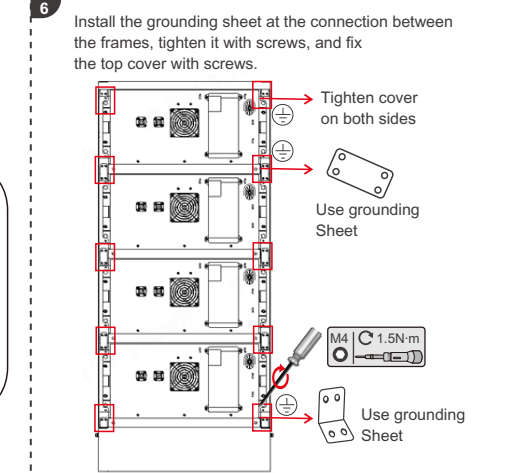
4 Place the cover on top of the battery stack frame.



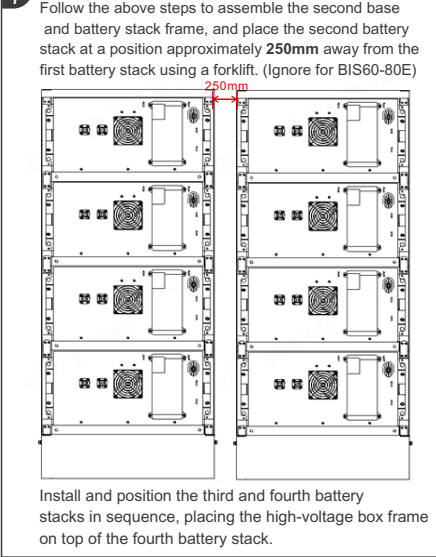
5 Remove the front cover of the battery stack frame



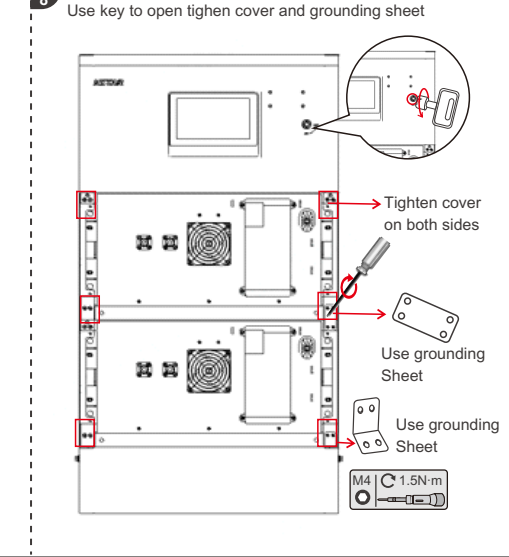
6 Install the grounding sheet at the connection between the frames, tighten it with screws, and fix the top cover with screws.



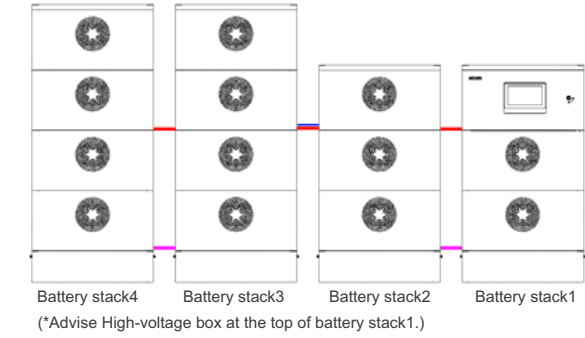
7 Follow the above steps to assemble the second base and battery stack frame, and place the second battery stack at a position approximately 250mm away from the first battery stack using a forklift. (Ignore for BIS60-80E)



8 Use key to open tighen cover and grounding sheet



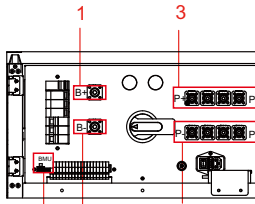
Explain Step 7 : BIS60-80E have one battery stack , BIS100-160E have two battery stacks , BIS180-240E have three battery stacks , BIS260E have four battery stacks.
Take BIS260E for instance :



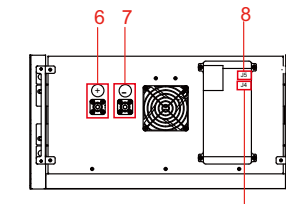
Wire Packaging Connection Description

NO.	Description	Wire Packaging Function Description
1	D1	High-voltage box positive pole (B+) to Last battery pack positive pole(⊕)
2	D2	High-voltage box negative pole (B-) to First battery pack negative pole(⊖)
3	D3	Last battery pack positive pole (⊕) to next battery pack negative pole (⊖)
4	D4	Between battery stack, the battery pack positive pole(⊕)to battery pack negative pole (⊖)
5	D5	Between battery stack, the battery pack positive pole(⊕)to battery pack negative pole (⊖)
6	C6	High-voltage box communication port (BMU) to First battery pack communication port (J5)
7	C7	Last battery pack communication port (J4) to next battery pack communication port (J5)
8	C8	Between battery stack, the battery pack communication port (J4) to battery pack communication port (J5)
9	C9	Between battery stack, the battery pack communication port (J4) to battery pack communication port (J5)(only use BIS260E)
10	GND connect wire	Battery stack GND connect wire (⊕)
11	Resistor	120Ω resistor for communication to Last Pack BMU (J4)

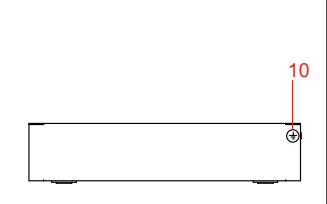
Wiring Procedure Instructions



High-voltage Box



Battery Pack Module



Base

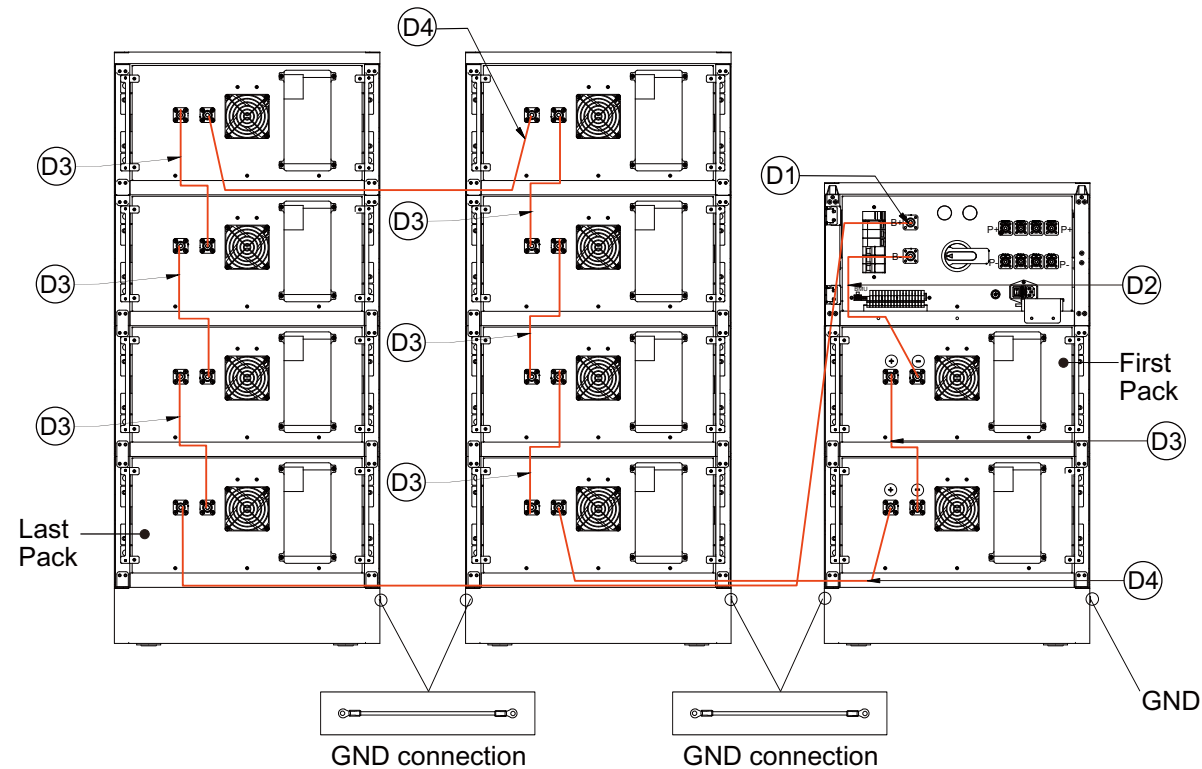
NO.	Name	Description
1	B+	High-voltage box battery B+
2	B-	High-voltage box battery B-
3	P+	High-voltage box inverter P+
4	P-	High-voltage box inverter P-
5	BMU	High-voltage box communication port
6	+	Battery battery B+
7	-	Battery battery B-
8	J5	Battery BMU communication port J5
9	J4	Battery BMU communication port J4
10	⊕	GND

Wiring Operation Steps

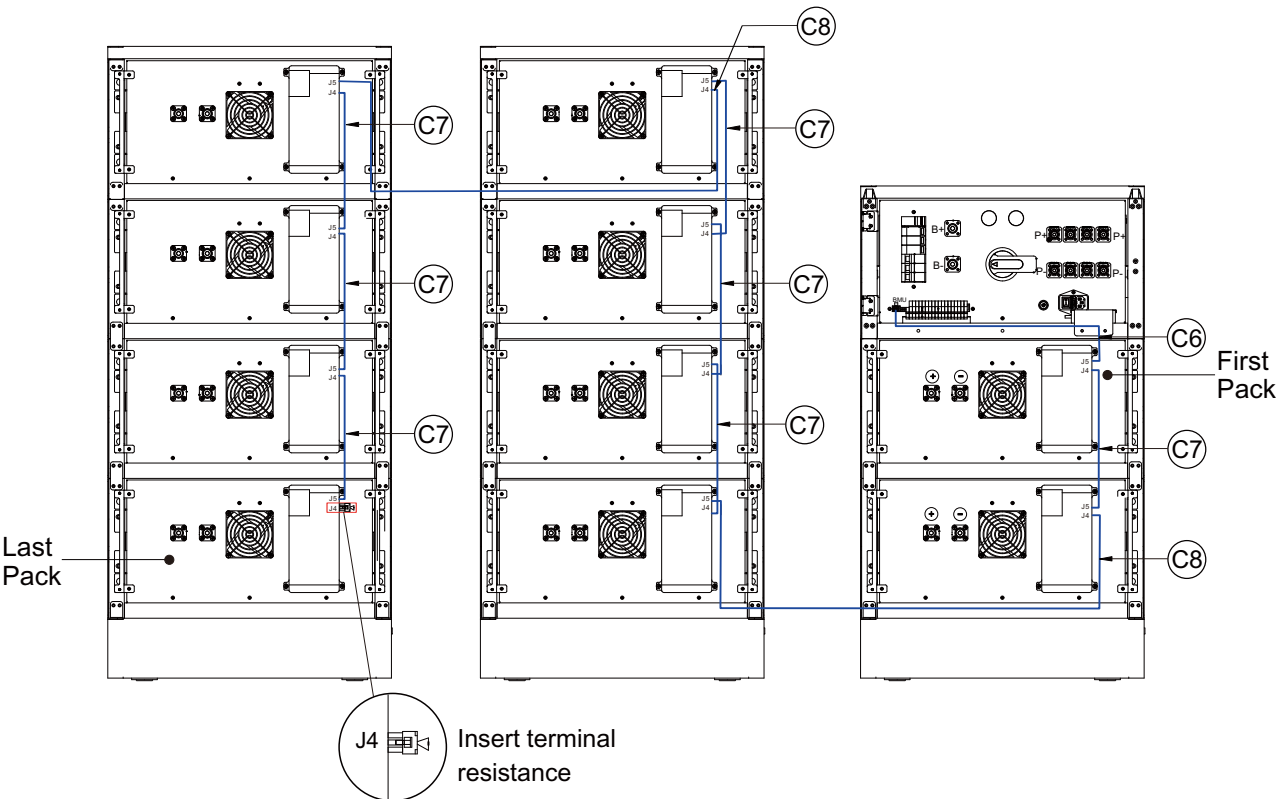
- 1.First, put on the insulating gloves ;
- 2.First connect the power cables, and find the corresponding cables (D1, D2, D3, D4, D5) from the wire packaging according to the wiring diagram below. Connect the cables in numerical order from D1 to D2 to D3 to D4 to D5. Insert the power plug into the power socket with color correspondence (orange plug into orange socket, black plug into black socket). The connection is considered reliable only when you hear a "click" sound after pressing the plug. Finally, connect the grounding cable between the battery stack and the base ;
- 3.Finally, connect the communication cables: According to the wiring diagram, find the corresponding cables (C6, C7, C8, C9) based on the labels. Connect the cables in numerical order from C6 to C7 to C8 to C9. Insert the communication wire plug into the communication socket with matching colors (black plug corresponds to black socket, white plug corresponds to white socket). Finally, insert the terminal resistor into the J4 communication port of Last Pack.

BIS220E Wiring Operation Steps

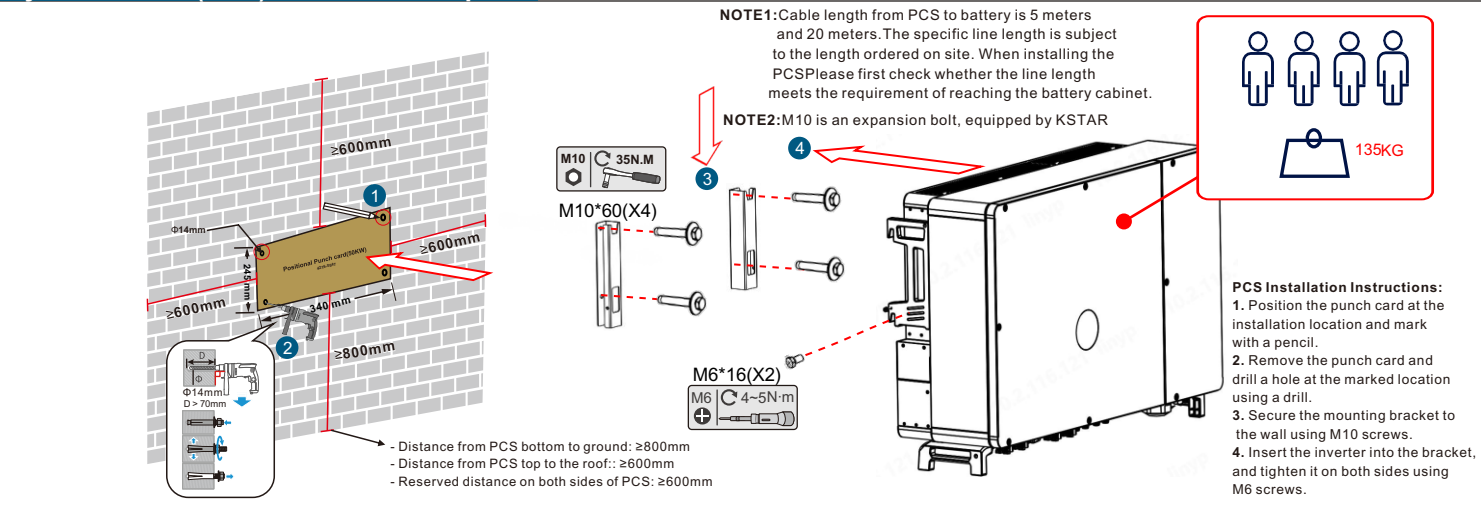
1.Power cable diagram
(11 PACKs + 1 high-voltage box)



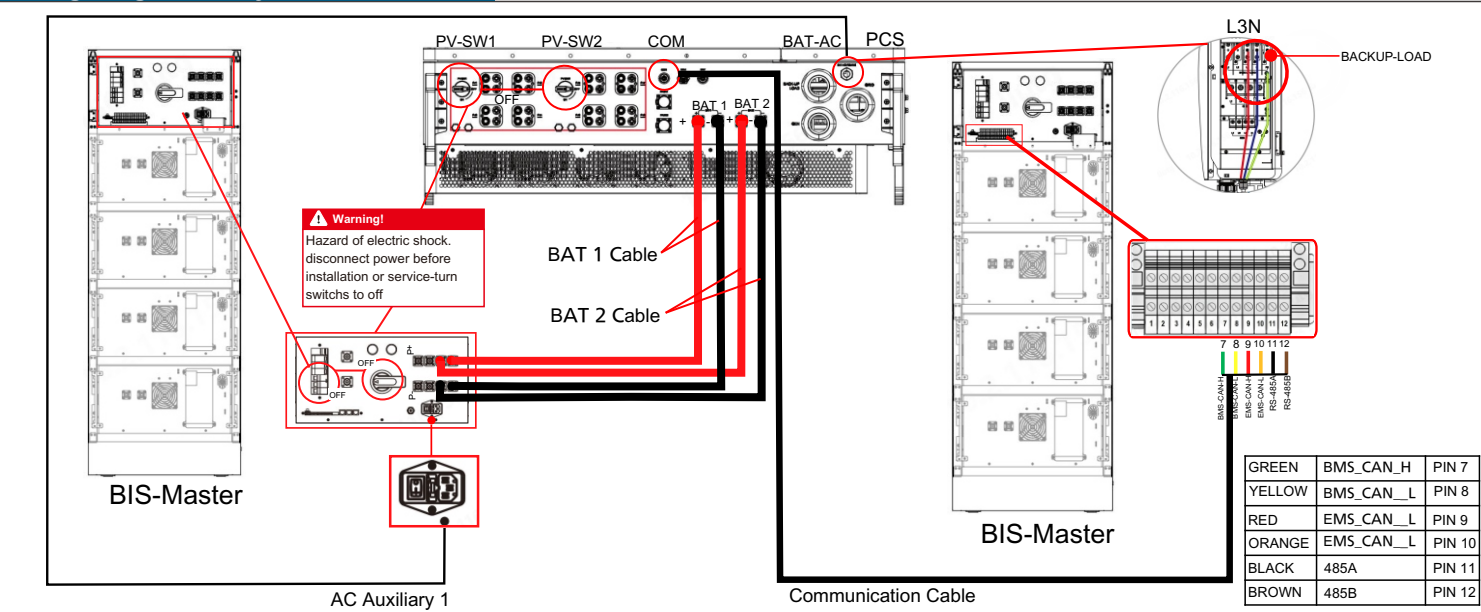
2.Communication cable diagram
(11 PACKs + 1 high-voltage box)



Hybrid Inverter(PCS) Installation Steps



Wiring Single Battery Cabinet to PCS



Wiring Double Battery Cabinet to PCS

