

附:制作要求

材质: 双胶纸100g

尺寸: 展开尺寸420\*297mm

折叠方式: 先竖向风琴折3折再横向对折, 折叠后料号二维码、料号页面朝上

颜色: 彩色双面 (若无标注潘通色号以ai图档为准)

其他: 料号后-X, X为供应商缩写

环保要求: 满足RoHS和REACH

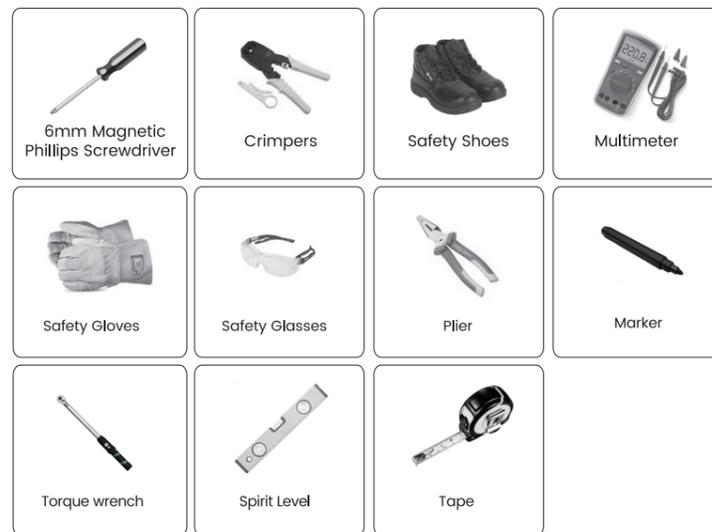
质量要求: 保证印刷清晰, 产品无脏污, 折叠整齐

# Quick Installation Guide

Models:  
CQ16  
High-Voltage Control Box

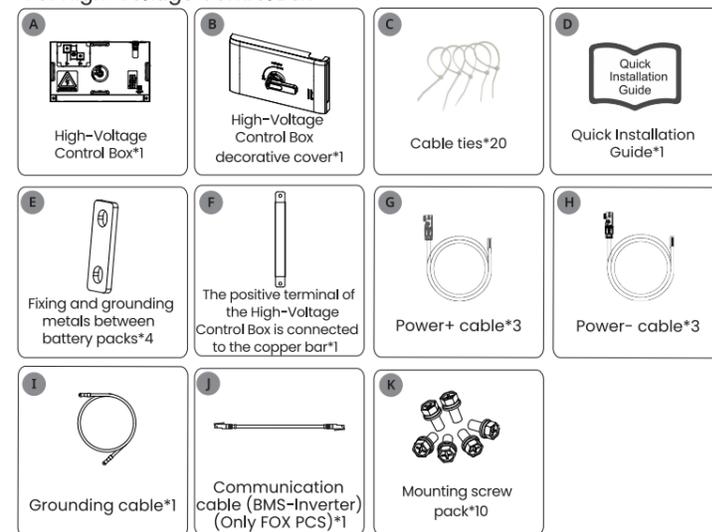
## 1. Tools Required

The following tools will be required to install CQ16 and High-Voltage Control Box.

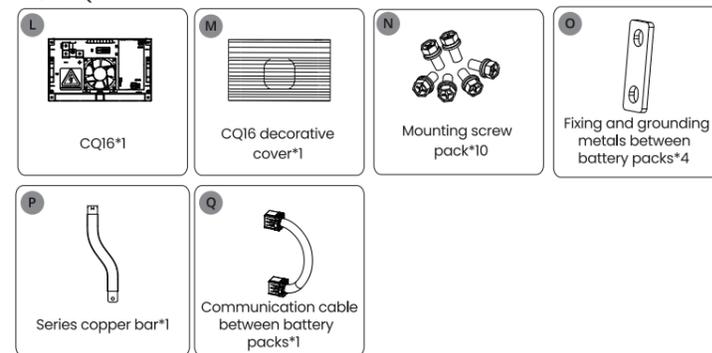


## 2. Packing List

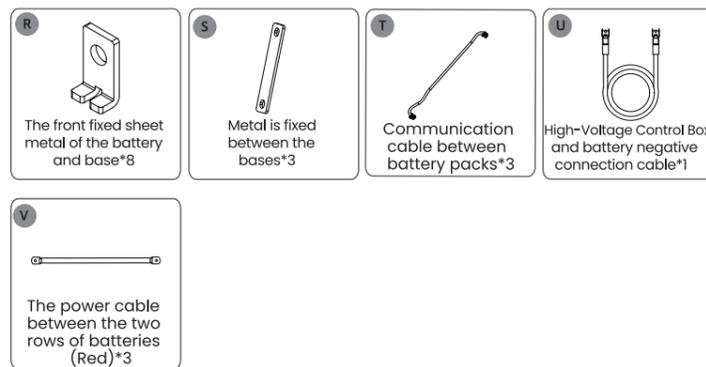
For High-Voltage Control Box



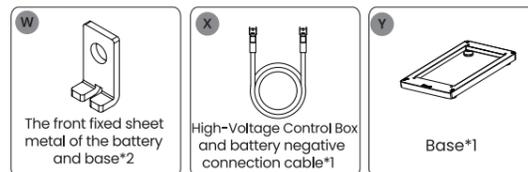
For CQ16



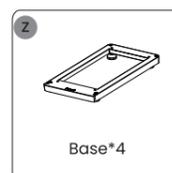
Accessory package 1  
1+15 System



Accessory package 2  
1+4 System

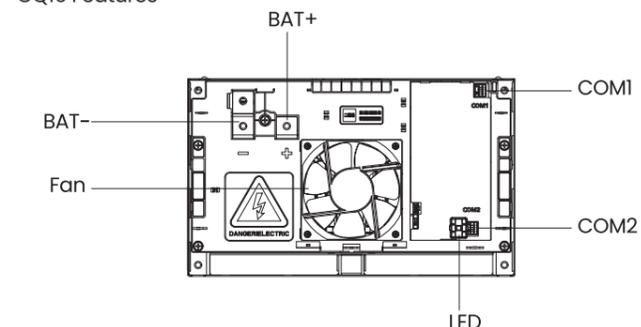


Accessory package 3

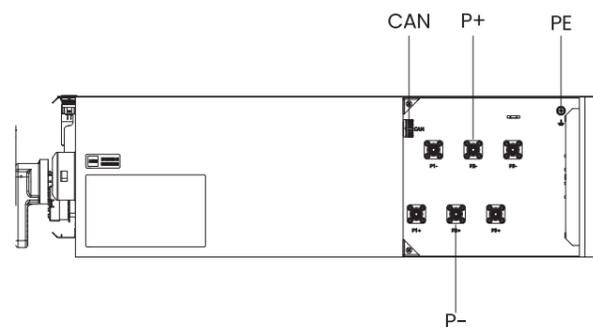
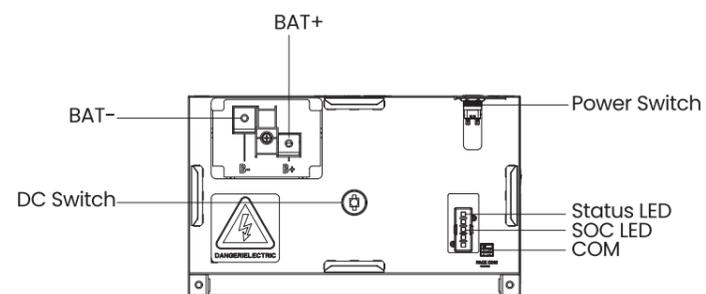


## 3. Terminals

CQ16 Features



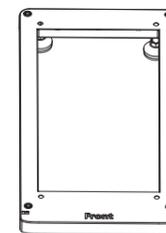
High-Voltage Control Box Features



## 4. Installation Steps

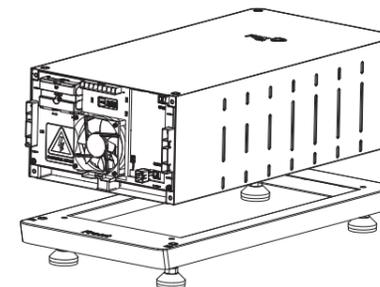
STEP-1:

Place the base (Item Y or Item Z) on the ground and adjust it to the level. After installing the footstand, use a track level bar to confirm the level.



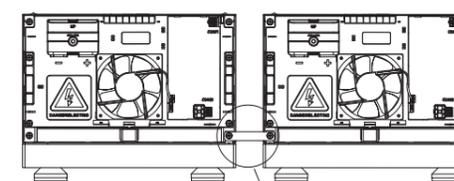
STEP-2:

Place the battery on the base. By moving the position of the battery pack, the raised sphere on the base will bounce up and restrict the movement of the battery pack.



STEP-3:

Use metal fixing plates (Item R or Item W) to secure the battery pack and the base. Fix the battery packs at the bottom of the two columns using metal fixing plates (Item S).

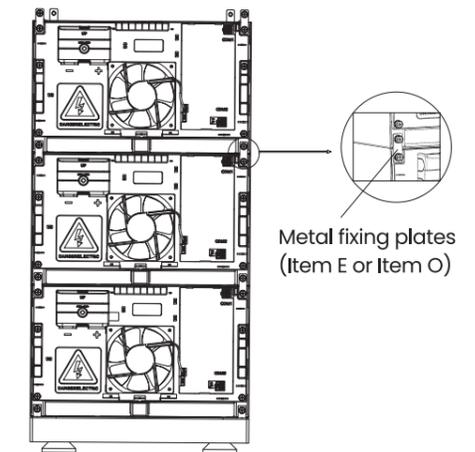


Metal fixing sheet (R or W)  
Metal fixing sheet (S)

Note: When placing the base, it is necessary to ensure that the distance between the bases is 50mm; otherwise, the metal fixing plates will not be able to connect.

STEP-4:

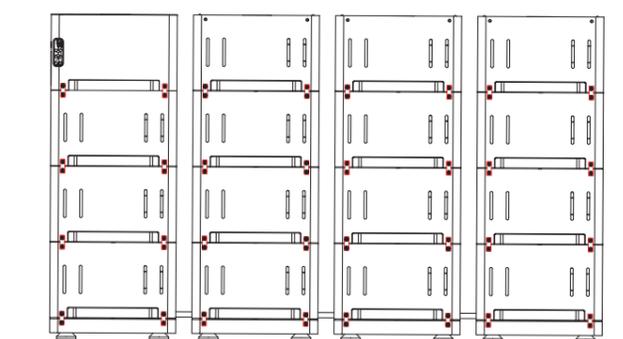
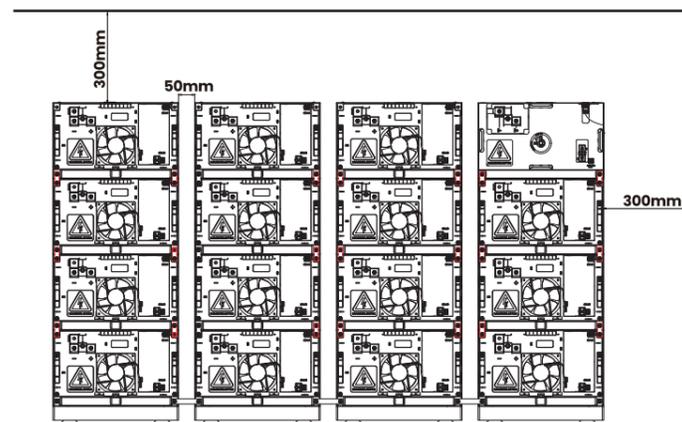
The upper and lower two battery packs are fixed with metal sheet fixing plates (Item E or Item O).



Note: A total of four metal fixing plates (Item E or Item O) are required between every two battery packs for fixation.

STEP-5:

Connect the metal fixing plates between all the batteries.



Note: The metal fixing plates have the function of grounding connection. Please connect all the metal fixing plates. The back of the battery also needs to be fixed.

STEP-6:

Battery cable installation

- a) The series copper bar between batteries is the (Item P) in the accessory.
  - b) The positive terminal connection copper bar between High-Voltage Control Box and CQ16 is (Item F).
  - c) The negative terminal connection cable between High-Voltage Control Box and CQ16 is (Item U or Item X).
  - d) The power cable between the two rows of batteries is (Item V).
- The connection of the communication cable needs to confirm the direction. Connect the first battery "INCOM (white)" from the high-voltage box "OUTCOM(yellow)". The communication cable between other battery packs are connected in sequence from "OUTCOM" to "INCOM".

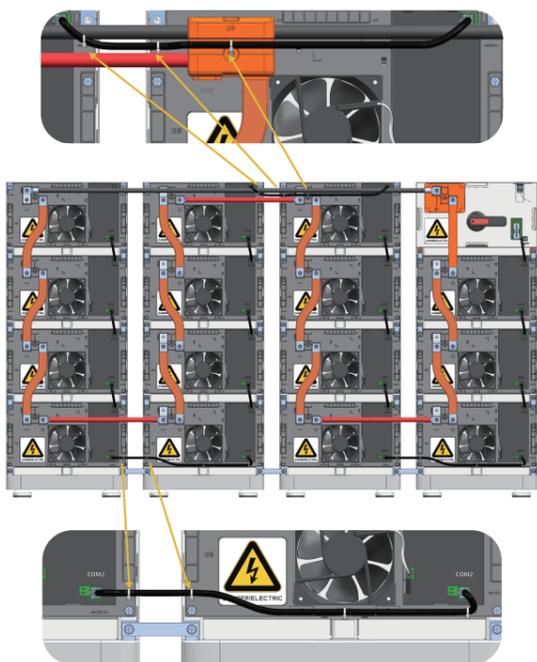


Note:

- 1. When connecting cables, observe the installation diagram and pay attention to the direction of the communication cables. Otherwise, the products may not work properly due to incorrect cable installation.
- 2. When connecting copper bar with high voltage, the work must be implemented by professional electrical operators with insulation gloves.

STEP-7:

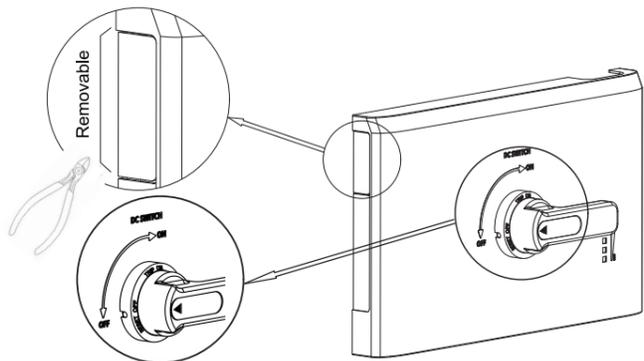
Cable fixation  
Use cable ties to fix the cable.



STEP-8:

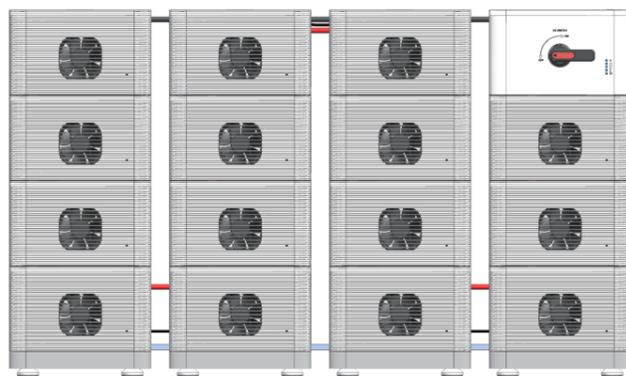
Installation of decorative covers

Depending on the actual installation requirements, you can selectively remove the "removable".



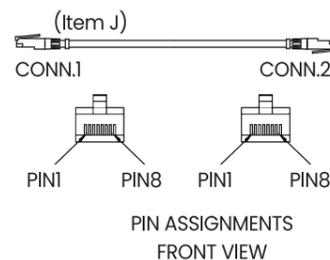
Note: Keep the handle pointed OFF when installing the cover.

Install the decorative covers of CQ16 and High-Voltage Control Box.

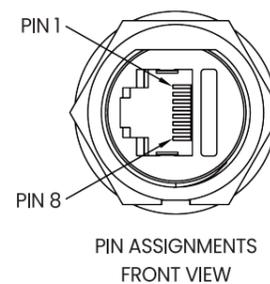


5. Communication and Grounding Cable Connection

Connect the inverter to make sure the cable position is correct. The communication cable connecting the battery system and the inverter is (Item J).



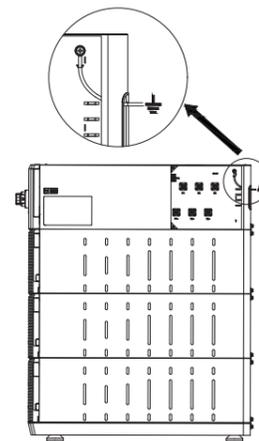
CONN.1 PIN	CONN.2 PIN
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8



PIN	Function Definitions
1	A-START
2	GND
3	/
4	BMS-CANL
5	BMS-CANH
6	BMS-CANH
7	BMS-CANL
8	/

Note: See the user manual for details on the cable steps of the inverter.

Connect the grounding cable to ensure that all batteries are grounded. The cable method can be referred to as shown in the figure below.



Note: Make sure that the power cable connected to the battery is connected vertically and that the vertical length is greater than 30 cm. If the cable is bent close to the terminals, it may cause poor line contact and result in burnt terminals.

6. System Operation

System Start Up:

When the inverter is connected to the PV and the grid and both are operating normally, turn on the battery DC Switch. Press the POWER switch and hold it for 3 seconds, then release. The Status LED is blinking green and indicates that the system is working normally.

System Shut Down:

Press and hold the POWER switch for at least 5 seconds until all of the Master LEDs (BMS Status LED and SOC LED) begin blinking. Once they start blinking, release the switch. The lights will automatically turn off after 5 seconds. Then, turn off the DC Switch.

System Black Start:

Under special circumstances when both PV and Grid power are out of order, the battery can be activated through the "Black Start" function. This means that our energy storage inverter and battery can continue to operate. The startup steps for black start are as follows:

- Turn on the DC switch, press and hold the power button for 3 seconds, then release.
- Press the Power switch three times in succession within 4 seconds (Complete within 30 seconds after the battery system starts up).
- The Status LED remains solid green, indicating successful activation of Black start mode.

Note: Ensure correct battery-inverter connection prior to Black Start. No cable modifications during black start.

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