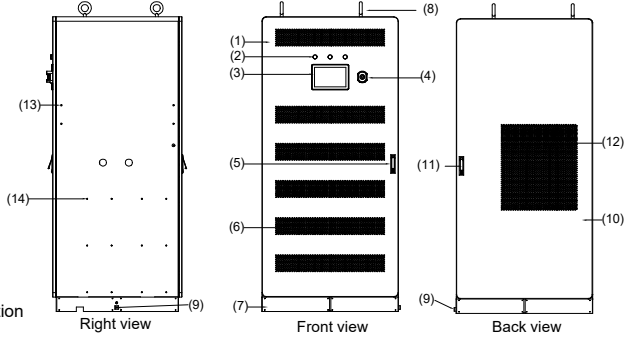
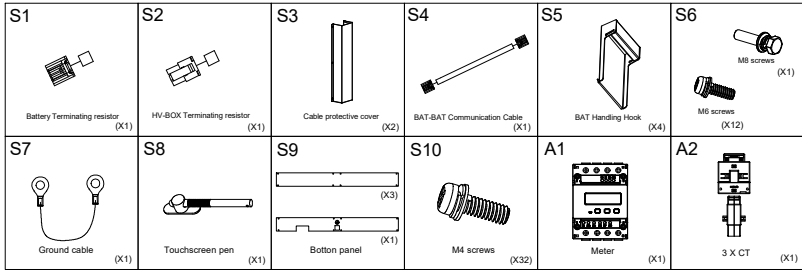


1. Product Overview

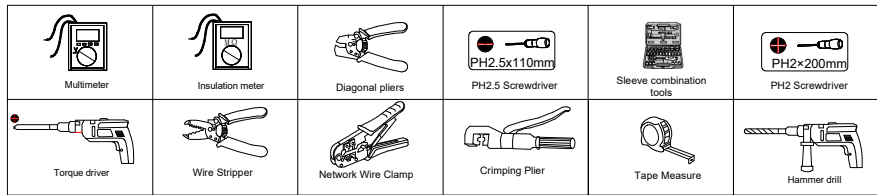
- (1).Front door
- (2).Indicator
- (3).SCADA
- (4).EPO
- (5).Front door lock
- (6).Battery cabin air outlet
- (7).Bottom panel
- (8).Lifting ring
- (9).Grounding
- (10).Backdoor
- (11).Backdoor lock
- (12).Battery cabin air inlet
- (13).PCS installation location
- (14).Cable protective cover installation location



1.1 Packing List

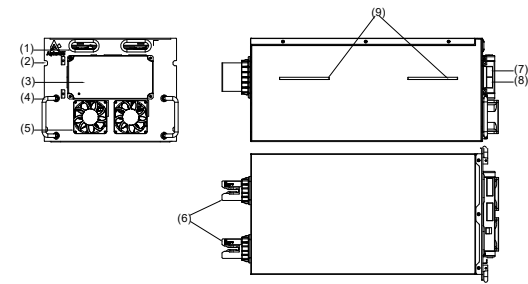


2. Installation Tools

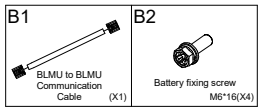


3. M38210-SC & M7790-S Product Overview

- (1).Battery sample cable outlet x2
 - (2).Mounting hole x4
 - (3).BLMU
 - (4).Handle x2
 - (5).Fan x2
 - (6).Power plug-in x2
 - (7).BLMU Communication port 1
 - (8).BLMU Communication port 2
 - (9).BAT handling hook connection point x4
- Note: The battery appearance of M38210-SC and M7790-S are similar

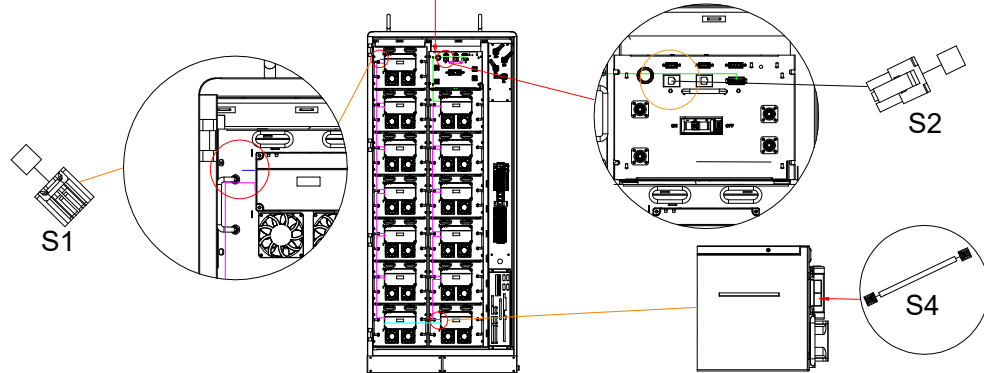


3.1 Packing List



5.3 Battery communication connection

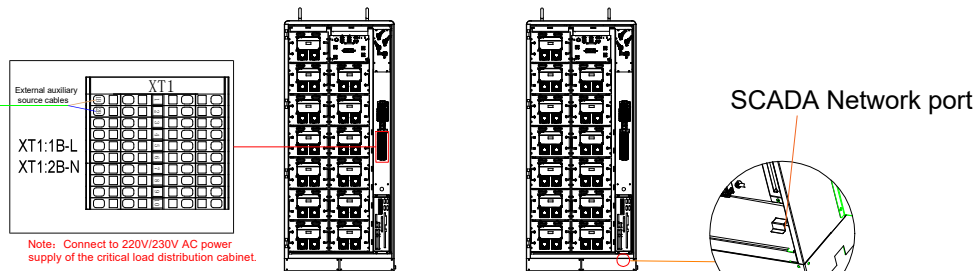
— B1 — S1 — S2 — S4 — reserve(The cable is fixed in the HV-BOX)



Step4:Battery communication cable

5.4 AC auxiliary source connection

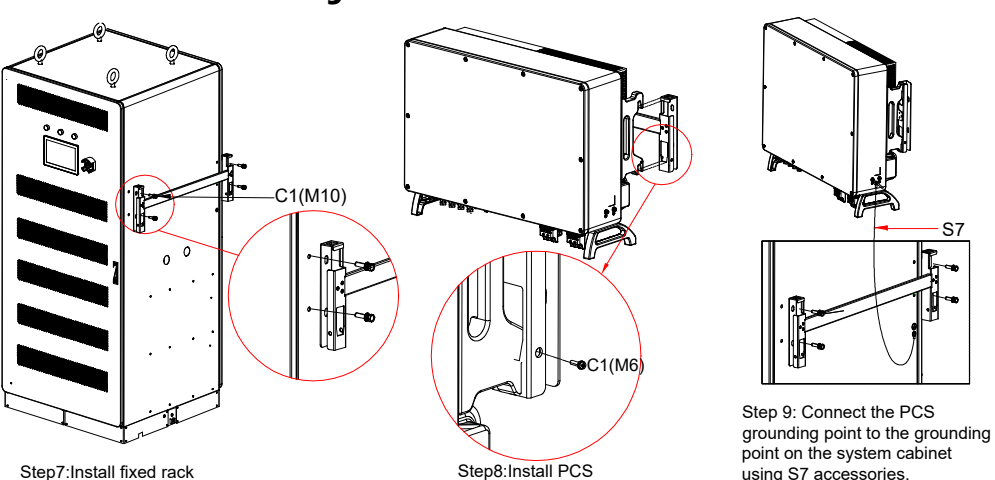
5.5 SCADA Ethernet port



Step5:Connect AC auxiliary power cable

Step6: Connect Ethernet Cable of SCADA

5.6 Fix the PCS&Grounding Terminal Connection



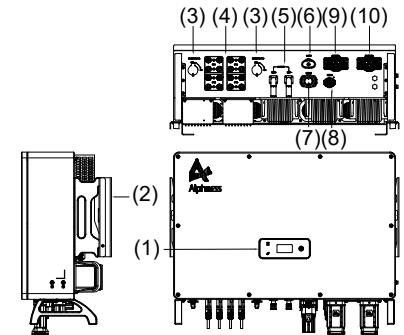
Step7:Install fixed rack

Step8:Install PCS

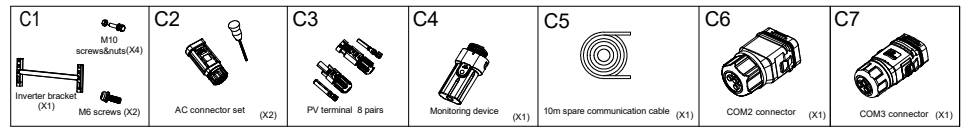
Step 9: Connect the PCS grounding point to the grounding point on the system cabinet using S7 accessories.

4. PCS

- (1).Display and LED panel
- (2).Hanger
- (3).DC switch
- (4).PV input terminal
- (5).Battery input terminal
- (6).COM1 port
- (7).COM2 port
- (8).COM3 port(reserve)
- (9).On-grid output terminal
- (10).Back-up output terminal

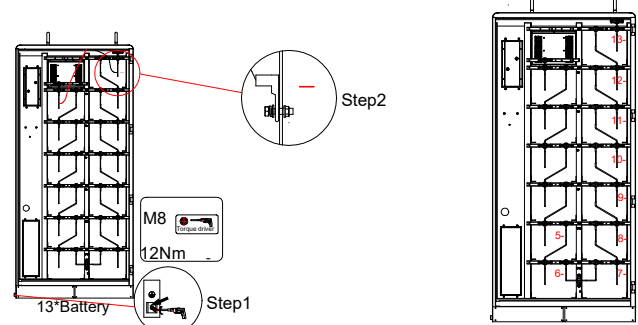


4.1 Packing List



5. Installing the Product

5.1 Installation of grounding cable and negative pole connection



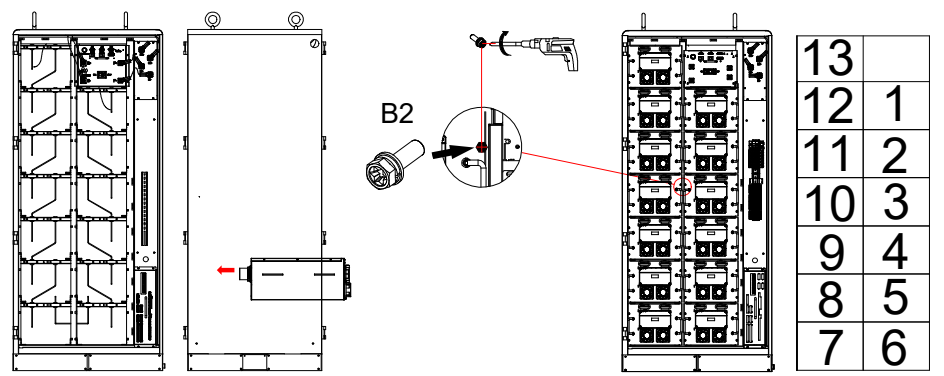
Note:The figure shows the installation layout of the negative electrodes for different quantities of batteries.

Suggestion:It is recommended that 2 to 3 people install it.

Step1:Use the M8 screws in the S6 to secure the ground cable,It is recommended to use cables with a cross-sectional area of 16mm² or larger.
Step2:Install the negative cable to the designated position based on the number of batteries.

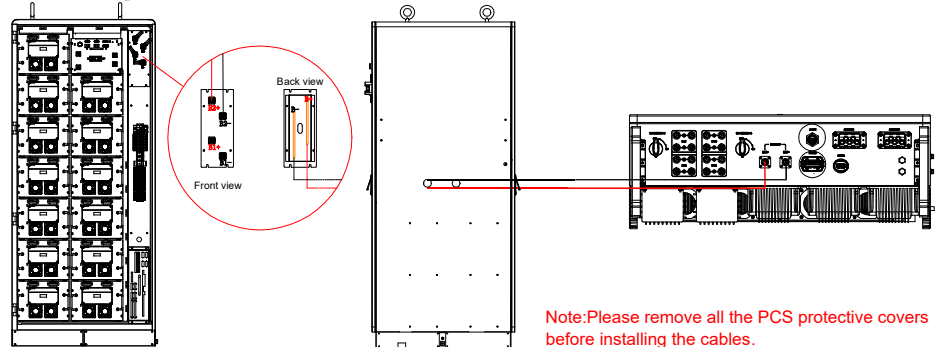
5.2 Battery installation

Install the batteries in various positions. After you have installed them, secure the batteries on the battery rack using B2 screws.



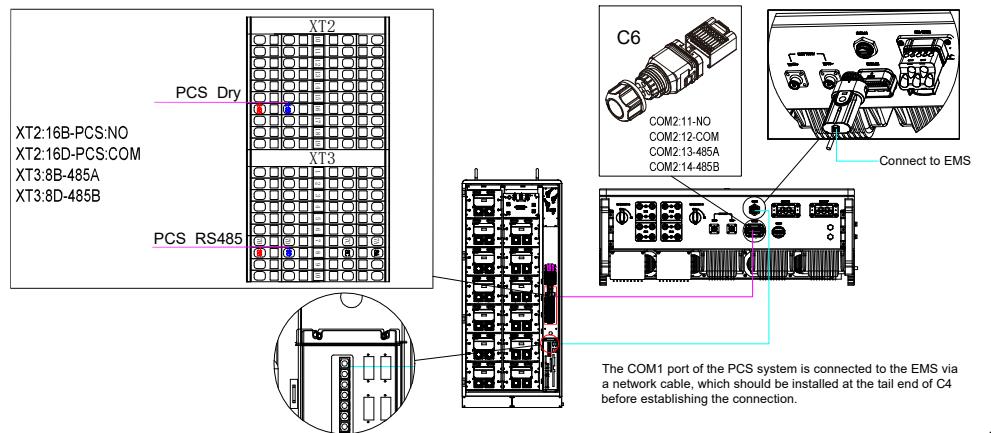
Step3:Battery installation

5.7 DC side power cable connection



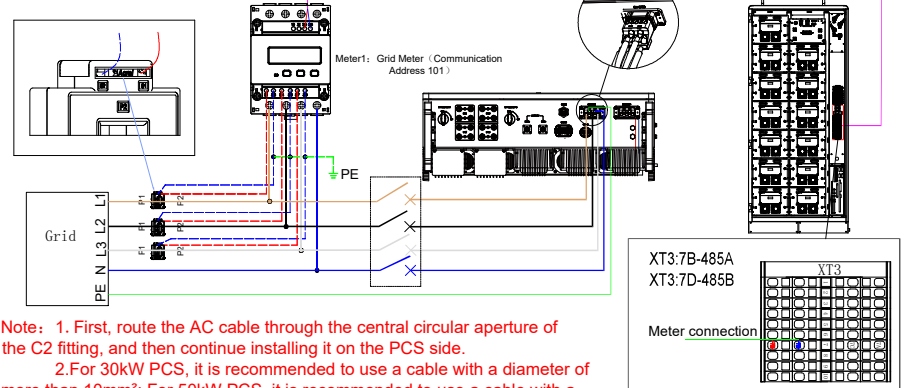
Note:Please remove all the PCS protective covers before installing the cables.

5.8 PCS communication cable connection



The COM1 port of the PCS system is connected to the EMS via a network cable, which should be installed at the tail end of C4 before establishing the connection.

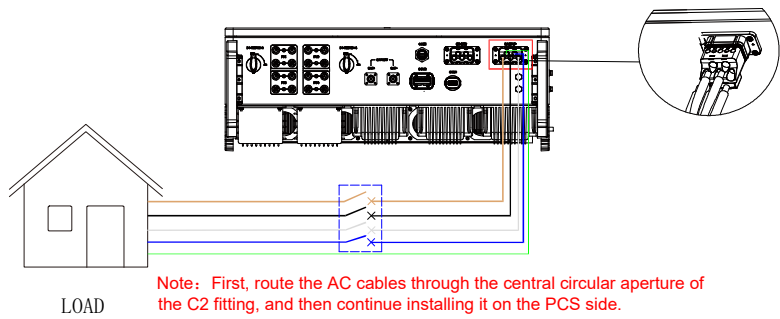
5.9 Grid Meter connection



Note: 1. First, route the AC cable through the central circular aperture of the C2 fitting, and then continue installing it on the PCS side.
2.For 30kW PCS, it is recommended to use a cable with a diameter of more than 10mm²; For 50kW PCS, it is recommended to use a cable with a diameter of more than 25mm².

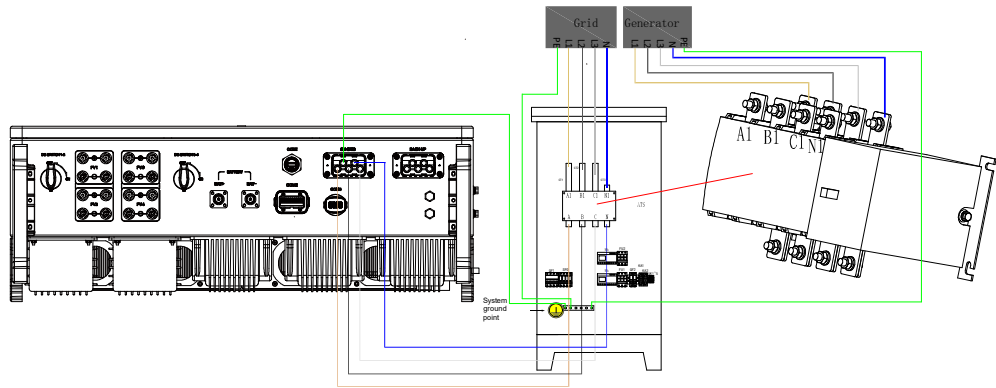
Suggestion: Install a circuit breaker between grid and the PCS;note that the Alpha do not provide the circuit breaker ,if a circuit breaker is installed,a leakage protector is not needed between the power grid and the PCS.

5.10 Load side connection

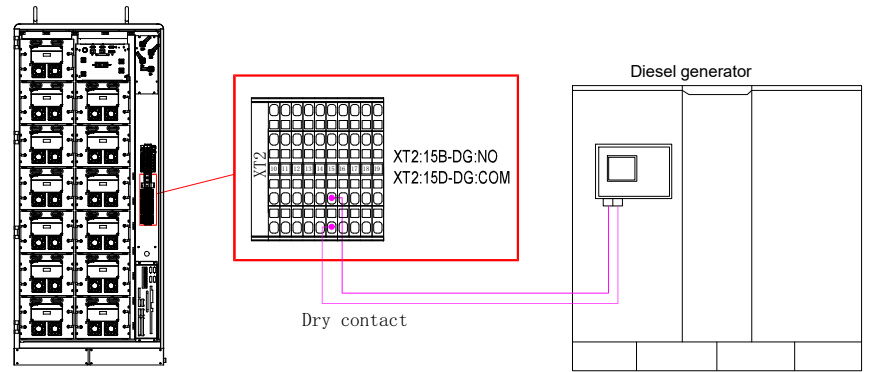


Note: First, route the AC cables through the central circular aperture of the C2 fitting, and then continue installing it on the PCS side.
Suggestion: Install a circuit breaker between load and the PCS; note that the Alpha do not provide the circuit breaker, if a circuit breaker is installed, a leakage protector is not needed between the power load and the PCS.

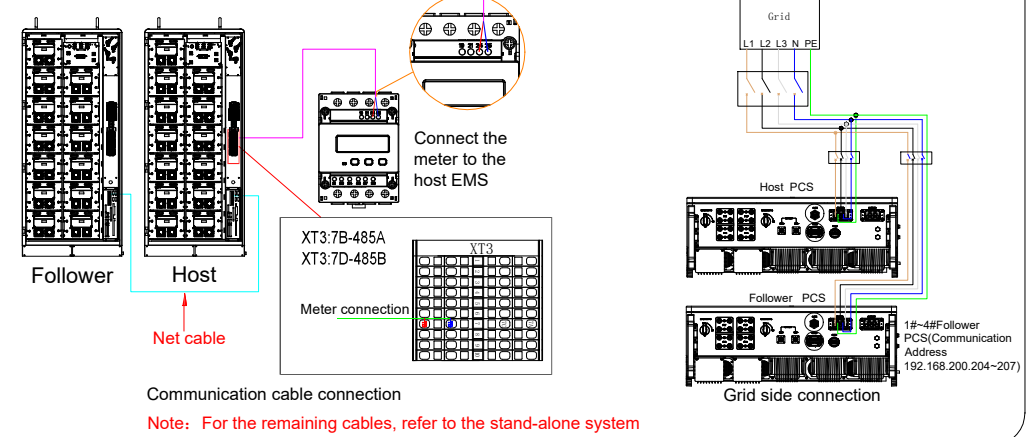
5.11 Dual power system AC side connection(Dual Power system)



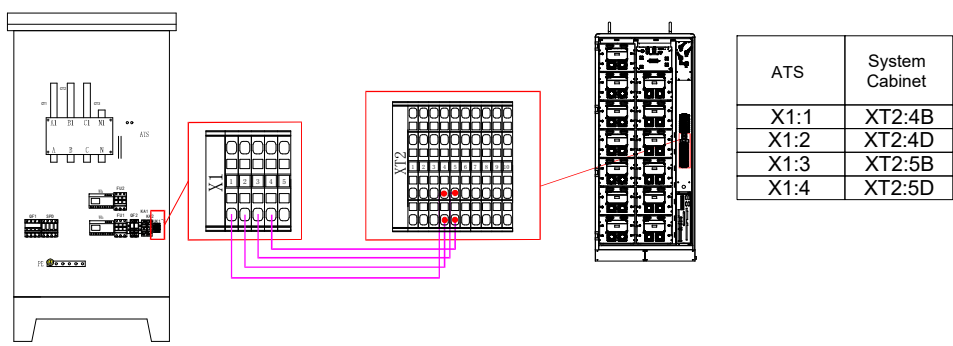
5.13 Diesel generator dry contact connection(Off-Grid with DG)



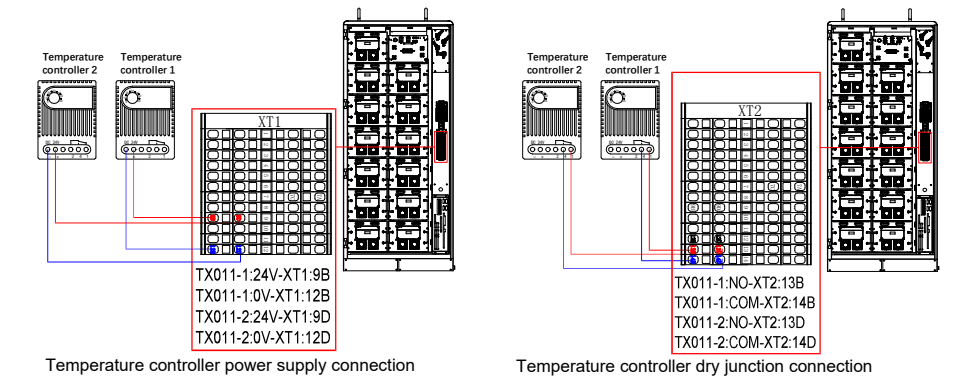
5.14 Parallel cable connection(On-Grid)



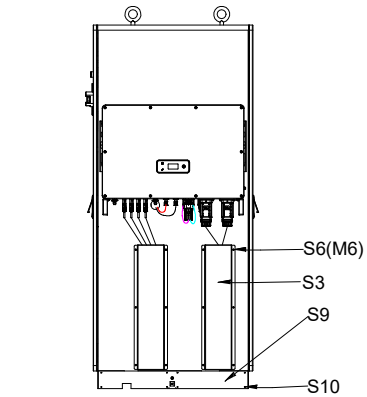
5.12 ATS dry contact connection(Dual Power system)



5.15 Temperature controller connection (Optional)



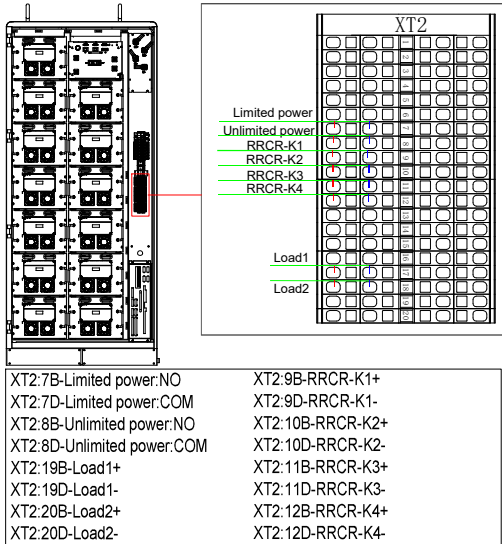
5.16 Cable protective cover installation



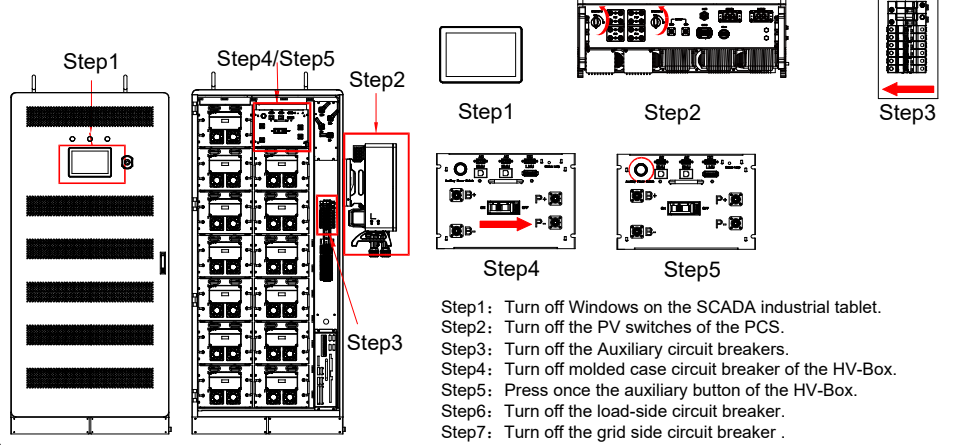
1. Use the S3 and S6 to fasten all cables securely inside the cable protective cover.
 2. Use S9 and S10 to secure all the bottom panel under the system cabinet.

Note: Install the PV side cable according to the steps in the PCS installation manual.

5.17 External cable connection



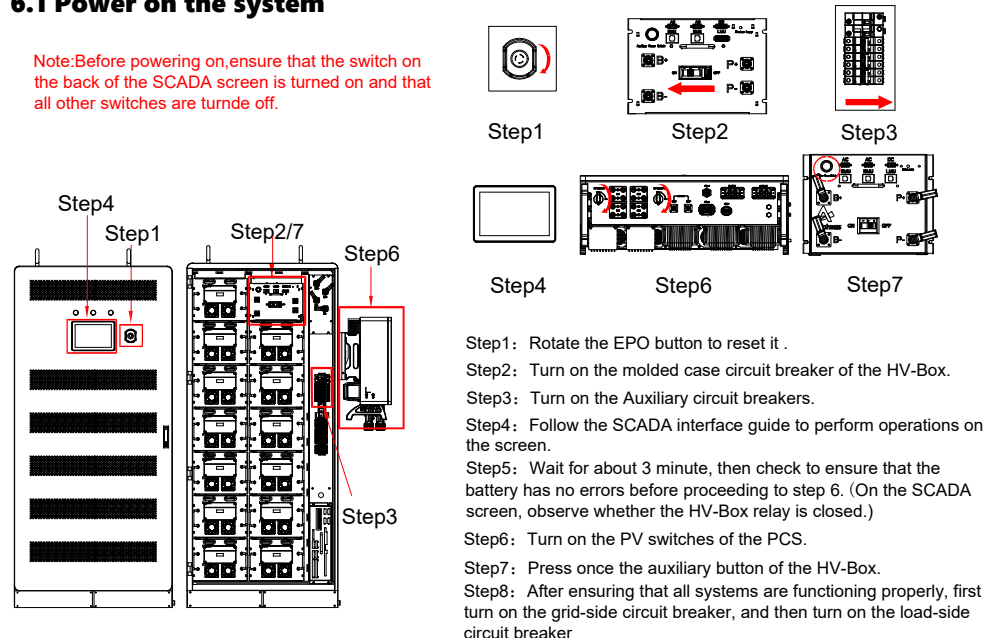
6.2 Power off the system



6. Commissioning

6.1 Power on the system

Note: Before powering on, ensure that the switch on the back of the SCADA screen is turned on and that all other switches are turned off.



7. For more information, please download System User Manual and System Installation Manual



System Installation Manual



System User Manual



Alpha C&I Cloud