



Quick Installation Guide

Z BOX-C ALL-IN-ONE ESS Cabinet



C 215-2H

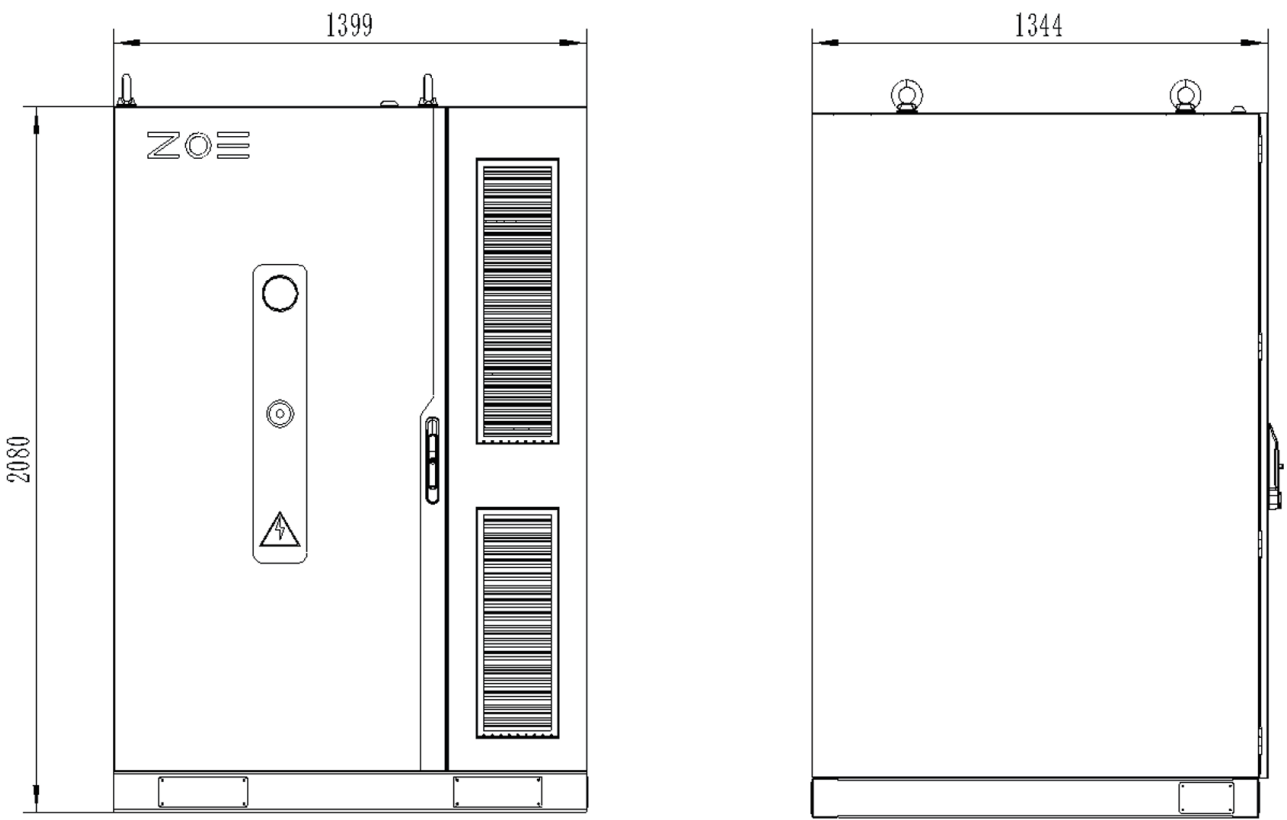
Product Model: C215L-A-EU

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Please consult the User Manual for more information

1. Product features



Weight	2450±50kg
Size	1399mm (W) * 1344mm (D) * 2080mm (H)

2. Tools

S.N.	Name	Purpose	Picture
1	Cable stripping knife	For stripping the outer thick insulation of multi-core cable	
2	Wire stripper	For stripping the inner thin insulation of multi-core cable	
3	Power drill (with 10-11 mm drill bit)	For drilling mounting holes on the ground	
4	PH2 cross-head screwdriver	For disassembling the bottom cover of the cabinet	
5	Hex socket set (with ratchet handle)	For connecting the power cable of the product	
6	Spirit level	For measuring the levelness of the equipment	
7	Insulating mat	For placing parts during installation of the equipment	
8	2B pencil	For marking hole locations	
9	Multimeter	For pre-power and power-on checks	
10	Ladder	For installing a hanger that is used to fix the energy storage equipment at height	
11	Tape measure	For measuring the height of the mounting plate and base from the ground upon wall mounting	
12	Crimping pliers	For crimping the input terminal	
13	Copper lug crimper	For crimping the power inlet wire	
14	Communication cable crimper	For crimping communication cable	
15	Ring mounting rod	For ring installation	

Remarks: It is recommended for on-site installation that a full set of No. 4-5 screwdriver sockets are provided.

3. Requirement on Installation Space

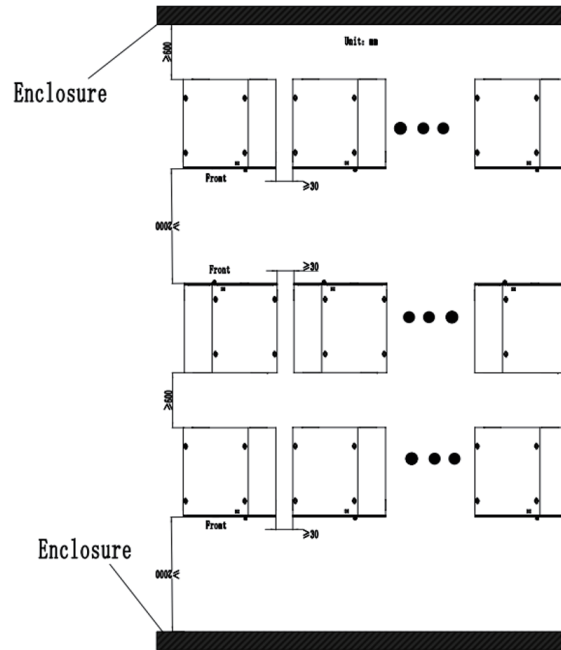


Fig. 3.1 Requirement on installation space

- At least 600mm of clearance shall be reserved at the back of the cabinet for the maintenance access of the fan.
- At least 2,000mm clearance shall be reserved in front of the cabinet for door opening.
- Keep a clearance of more than 30mm between the cabinet and mounting space.

4. Floor Requirements

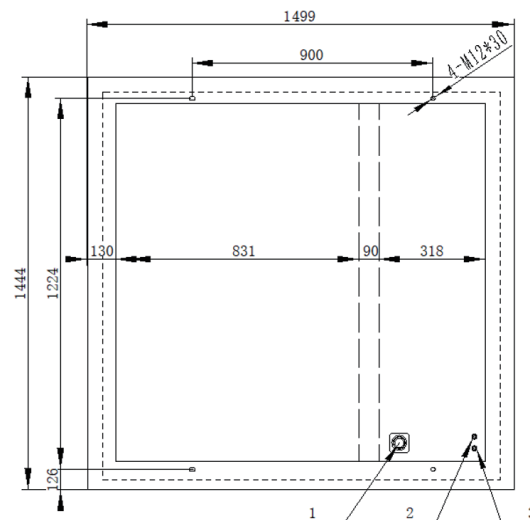


Fig. 4.1 Installation Requirements on Floors

- The floor shall be flat with 1499*1444 leveled area; four M12*30 anchor bolts shall be driven into the ground for installation of the cabinet.
- The 130mm perimeter and 90mm transom are reinforcement areas and need to support a load of 3T. Position 1 is the main cable hole, position 2 is the network cable, and position 3 is the UPS cable hole.

5. Cabinet Installation Requirements

Cabinet installation Rings

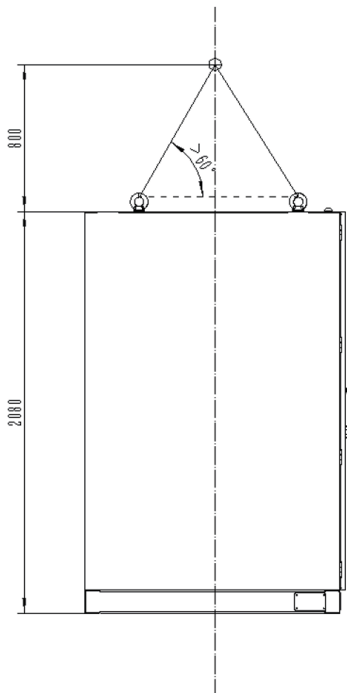


Fig. 5.1 Lifting Requirements

- Check whether the lifting ring is loose. If so, use the NO.15 tool in the tool list to tighten it.
- Install the rope through the four rings and conduct lifting to a height of 800mm, so that the rope angle is greater than 60°.
- Lift the cabinet slowly via the rope (capacity: 3T) and put it down gently.

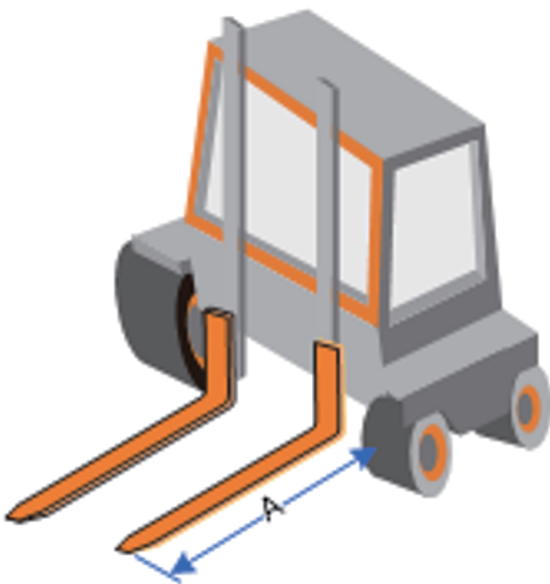


Fig. 5.2 Forklift Requirements

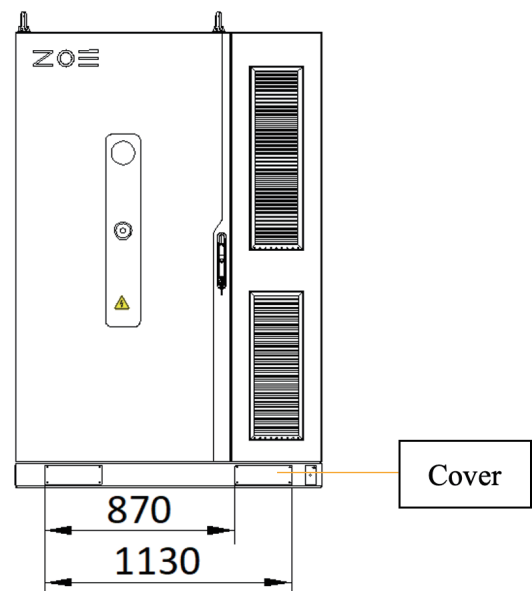


Fig. 5.3 Dimensions of Forklift Holes in Cabinet

- Fork length: $A > 1,500\text{mm}$
- $870\text{mm} < \text{fork width} < 1,130\text{mm}$; fork weight: 3T
- The four forklift hole covers shall be open. The forklift shall extend into the holes, move slowly and put down the cabinet gently.

6. Locking Requirements

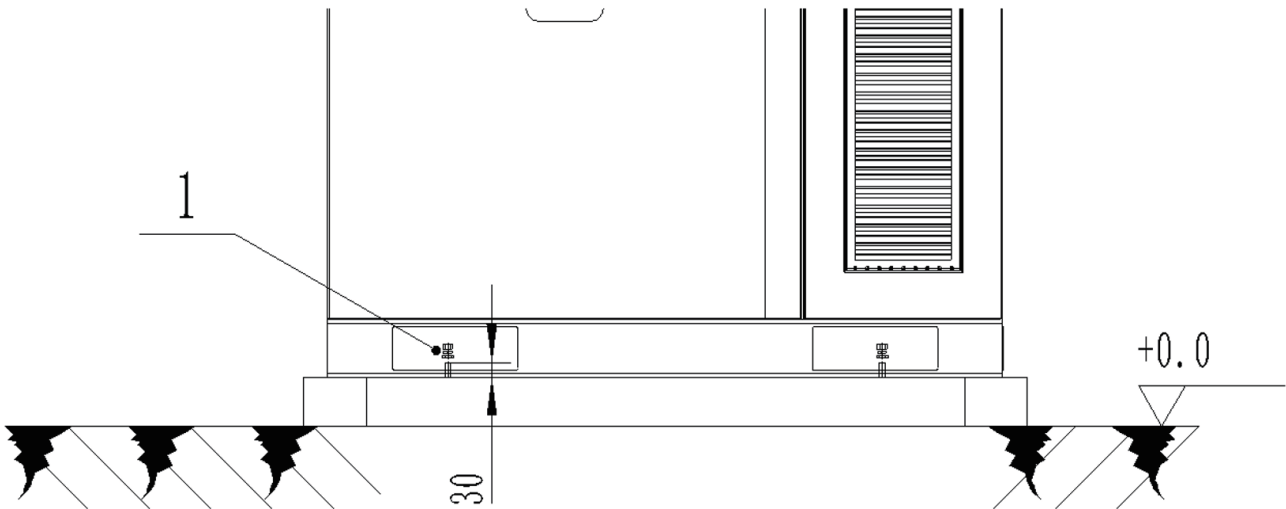


Fig. 6.1 Locking Requirements

- After the cabinet is located onto the anchor bolts, it shall be locked tight with M12 nuts, spring washers and flat washers.

7. Power Cable Installation Requirements

- The power cable, preferably AWG #1 AC400V, shall enter the cabinet through the bottom.
- Use AWG #1 AC400V cables for A/B/C and AWG #4 AC400V cables for N/PE. The crimp terminal width should be $\leq 22\text{mm}$. When connected to the PCS input terminals A/B/C/N, the installation torque of the wiring screws is: 18-22N.M, A/B/C/Three-phase copper lug model: TLK50-8 (Brand KST), N-wire copper lug model: TLK25-8 (Brand KST)
- PE is connected to the external earthing copper bar of the cabinet. The mounting torque of the terminal screw is 8-10 N.M. The copper lug model of the PE end: TLK25-12 (Brand KST)

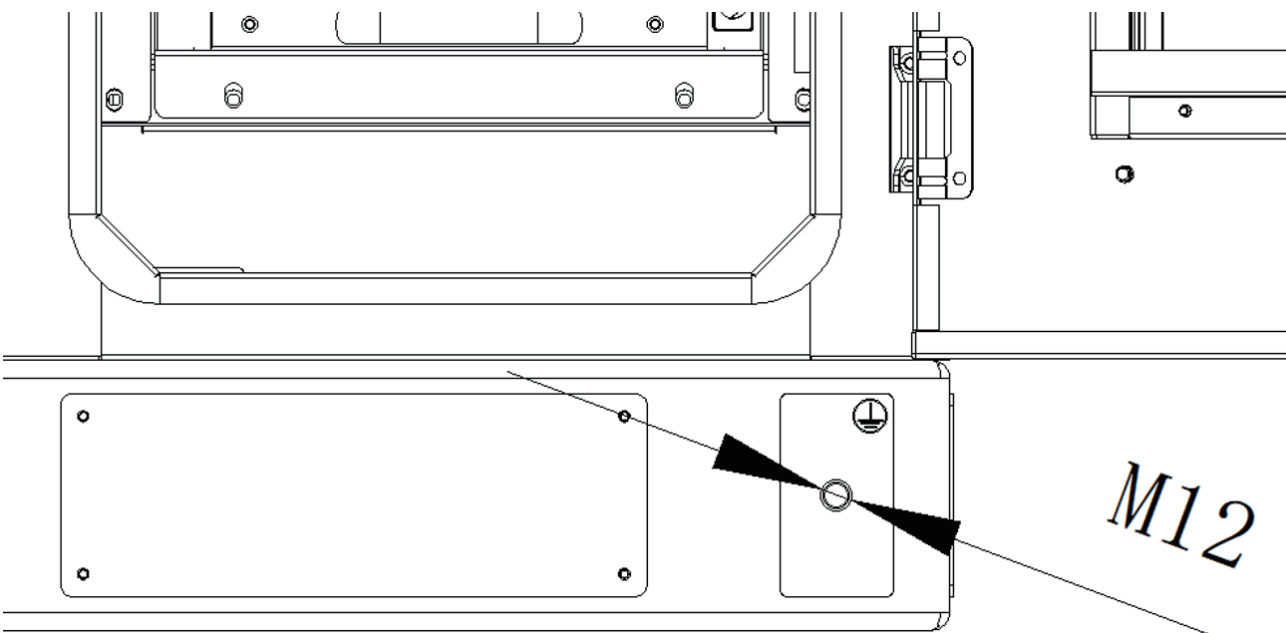


Fig. 7.2 Cabinet Shell Grounding

8. Installation Requirements of Communication Network Cable and UPS Power Cable

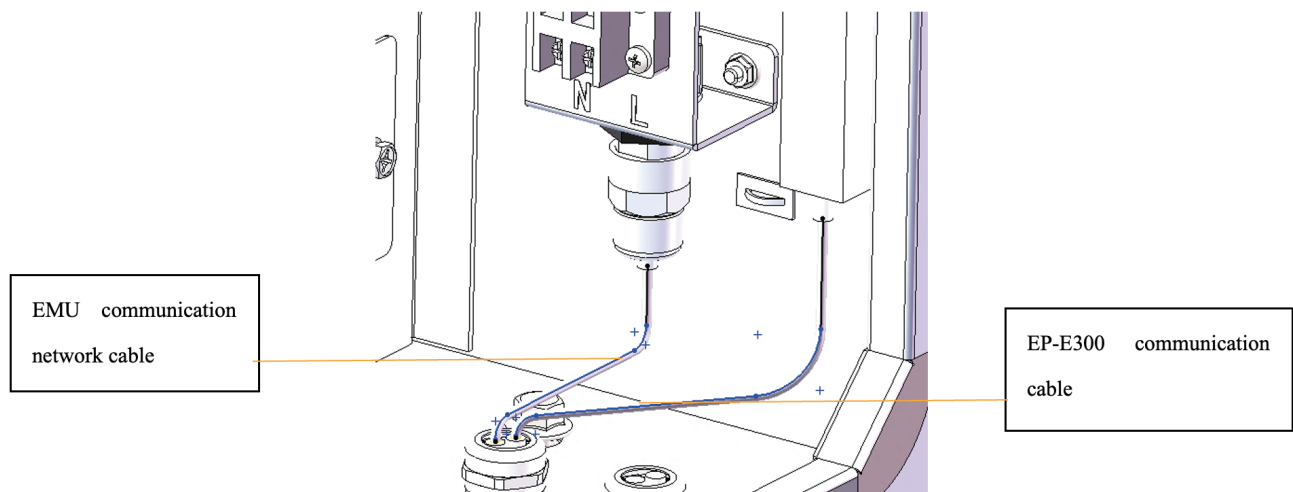


Fig. 7.2 Cabinet Shell Grounding

- Super Category 6 network cables are recommended for the EMU external communication network cables, which are connected through the bottom of the cabinet.
- After passing through the transfer registered jack, crimp RJ45 registered jacks, as shown below.

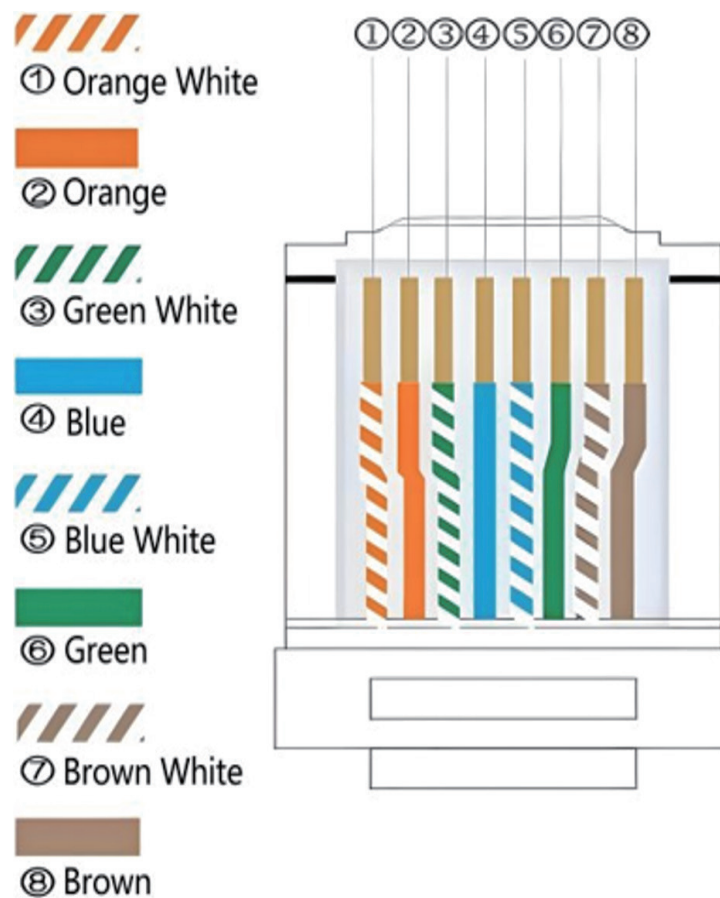


Fig. 8.2 T568B Standardized Arrangement Order

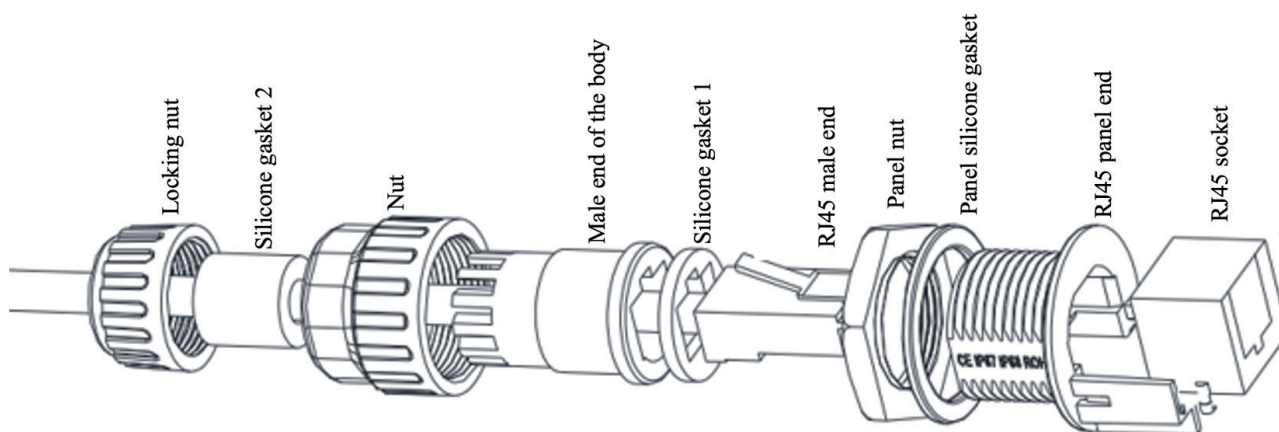


Fig. 8.3 EMU External Network Cable

- Super Category 6 network cables are recommended for the EP-E300 external communication cables (only for FFR FM), which are connected through the bottom of the cabinet. They should pass through the waterproof connector before crimping the registered jacks.
- Two pieces of 16AWG cables are recommended for the AC220V UPS power cables, which are connected to the L/N corresponding to the outer lead terminal. The wiring torque is 0.8-1.0 N.M. The copper lug type is: E1510 (Brand KST)

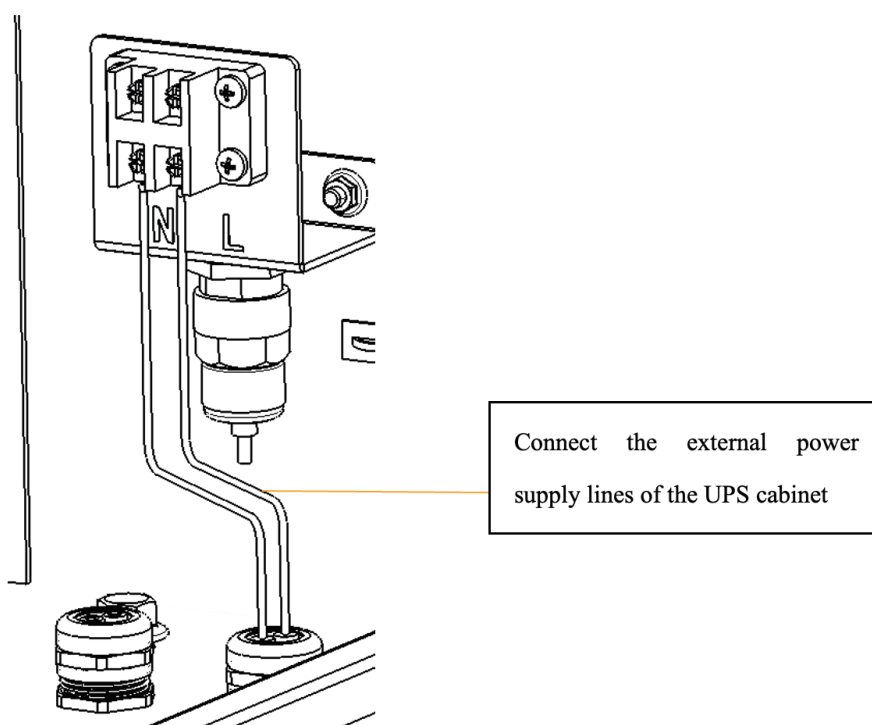


Fig. 8.4 UPS Wiring Schematic Diagram

9. Requirements after Cable Connection

- Reinstall the forklift cover.
- Turn tight the waterproof joint of the power cable, and fill in the necessary sealing material.
- Turn tight the waterproof joint of the communication cable, and fill in the necessary sealing material.



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