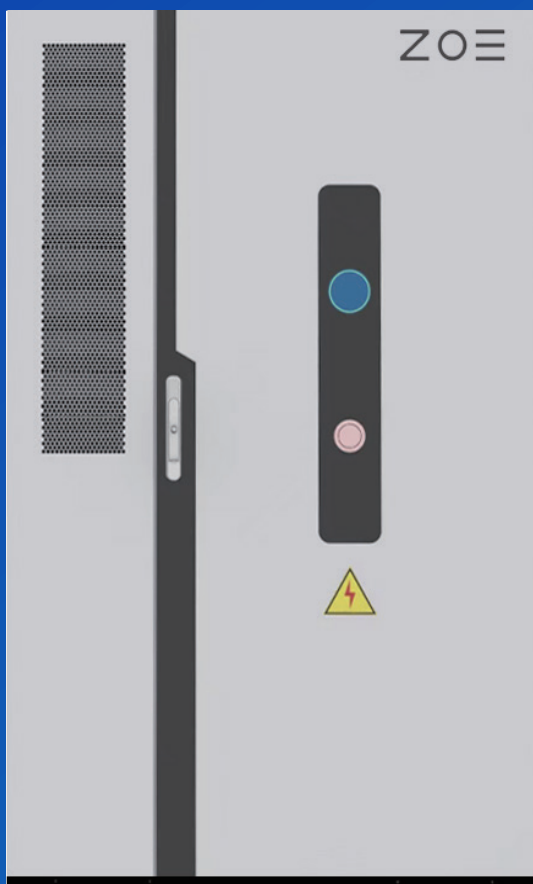


Quick Installation Guide

Z BOX-H Battery Cabinet



H 372-2H

Product Model: C372L-D-EU

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Please read the User Manual for more information

1. Product features

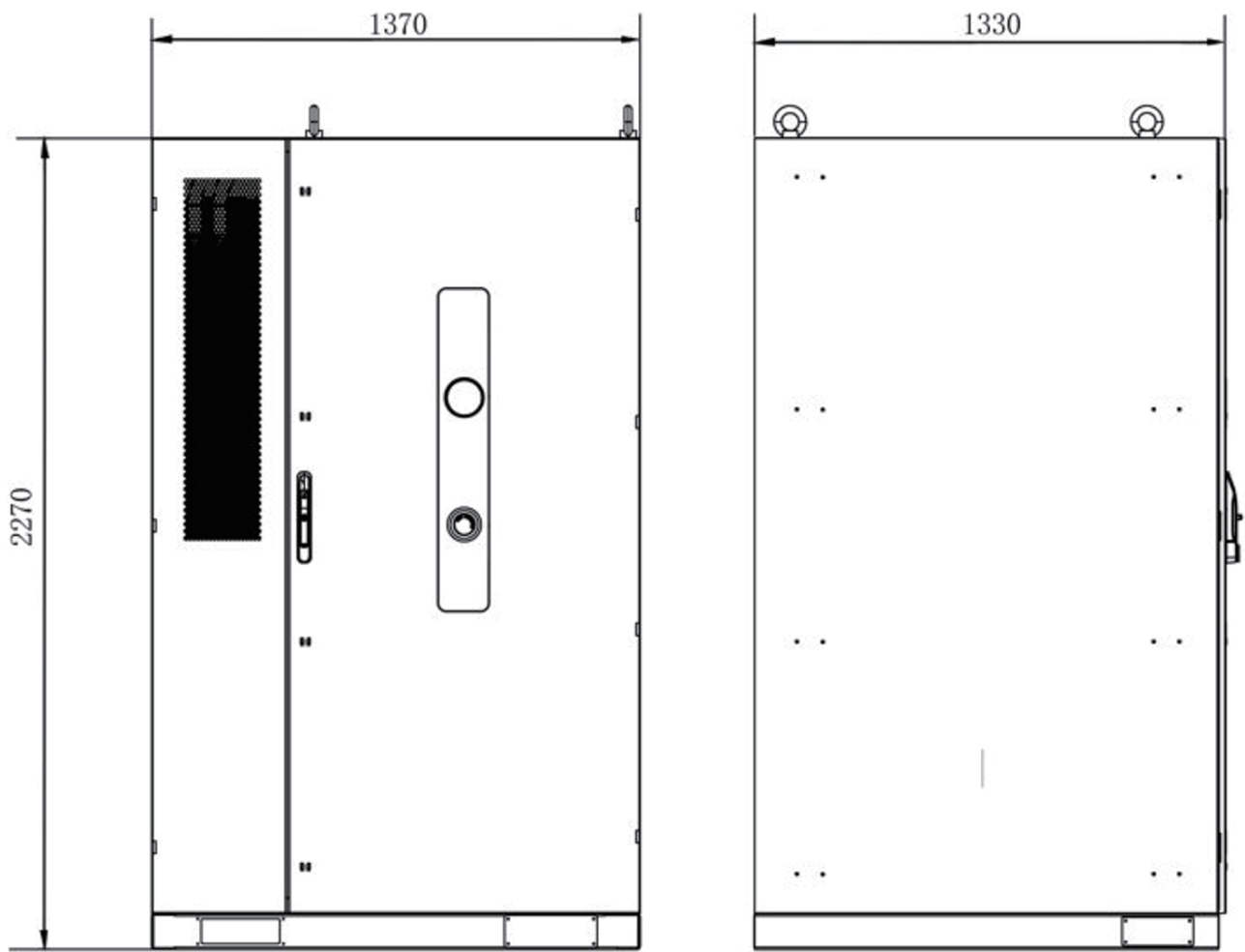













Figure 1-1 Dimensions

Weight	3550±50kg
Dimensions (W*D*H)	1370*1330*2270mm

2. Installation 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 10-11mm 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 prepared.

3. Requirement on installation space

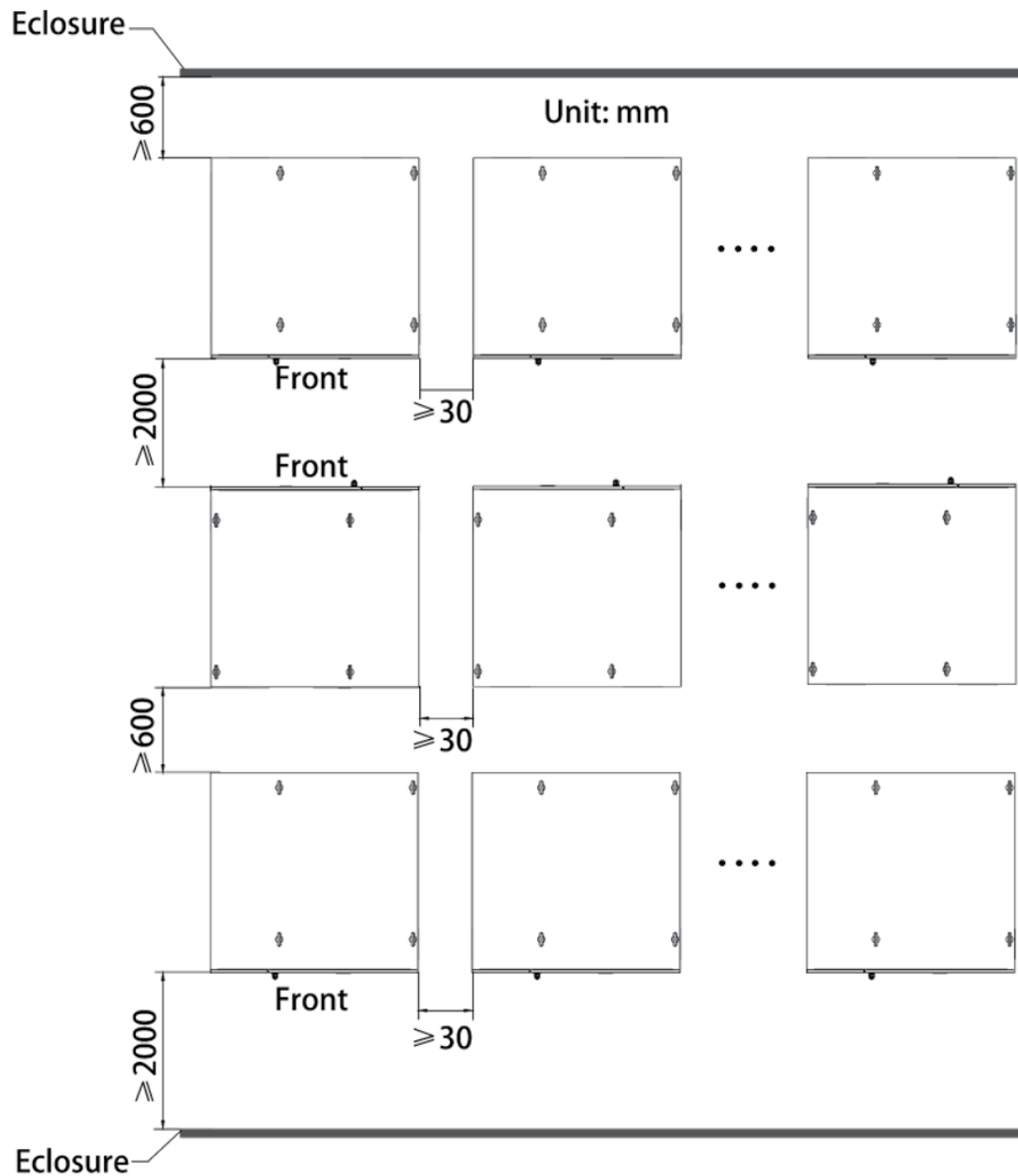


Fig. 3-1 Requirement on installation space

- 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

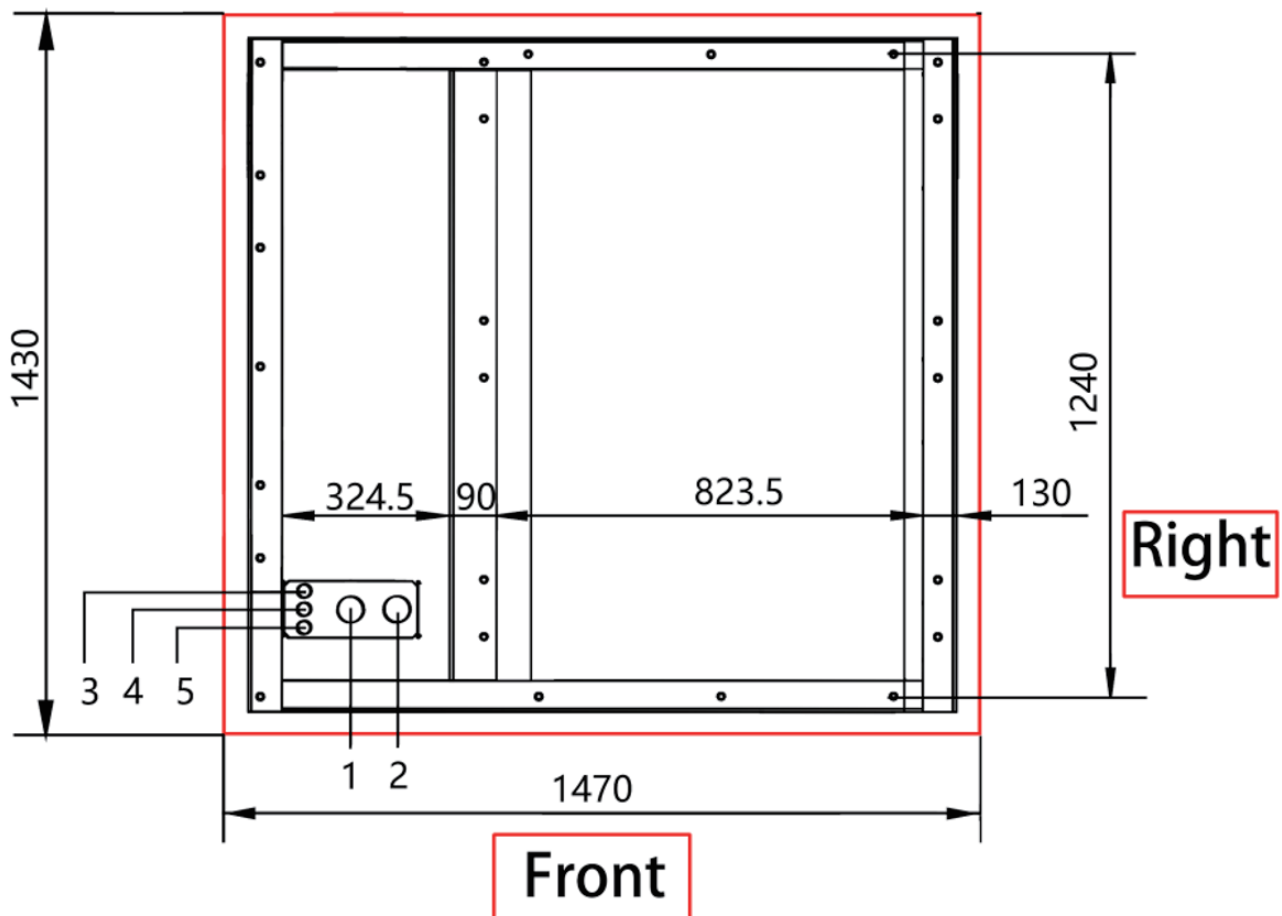


Figure 4-1 Floor Requirements (top view)

- The floor shall be flat with 1,470*1,430mm 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 $\geq 4T$.
- No. 1 and 2 are for P+ and P- cable holes, No. 3 is for RJ45 cable holes, No. 4 is for PCS communication and fire communication cable holes, and No. 5 is for Grid and UPS cable holes.

5. Cabinet installation requirements

• Cabinet lifting

- Take out the four M24 rings and washers according to the packing list. Install them into the holes at the top of the cabinet. Tools: NO. 15 in the tool list.
- 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: $\geq 4T$) and put it down gently.

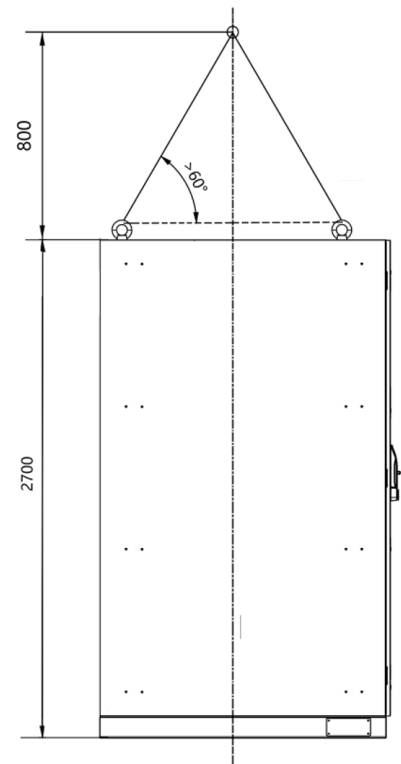


Figure 5-1 Cabinet Lifting

• Handling with forklift

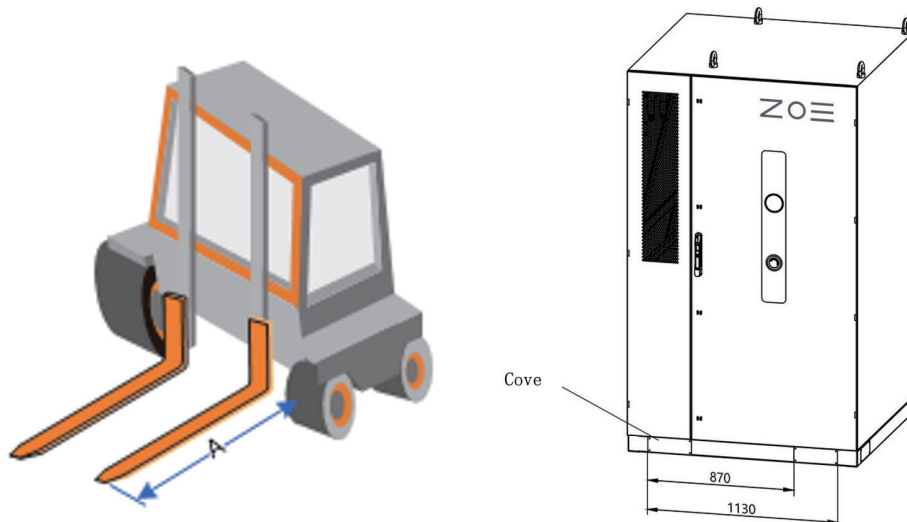


Figure 5-2 Handling with Forklift

- Fork length: $A > 1,500\text{mm}$
- $870\text{mm} < \text{fork width} < 1,130\text{mm}$; fork weight: $\geq 4T$
- 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

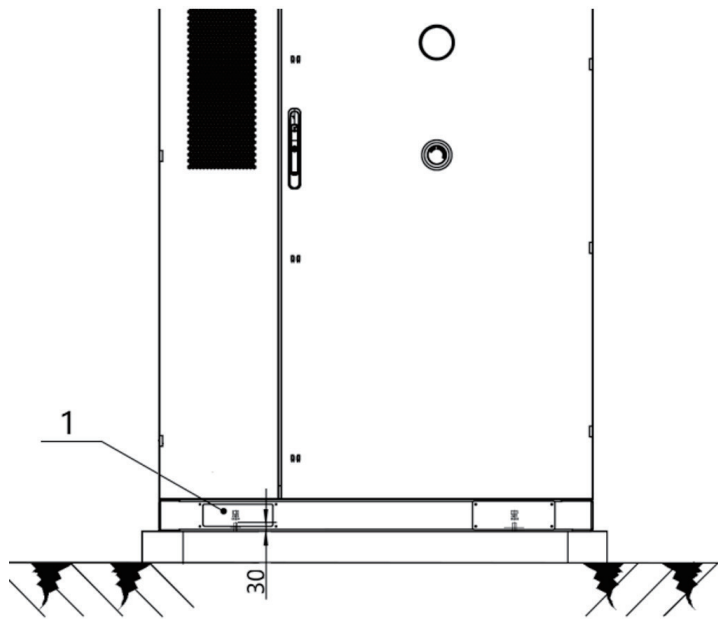


Figure 6-1 Locking Requirements

- 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

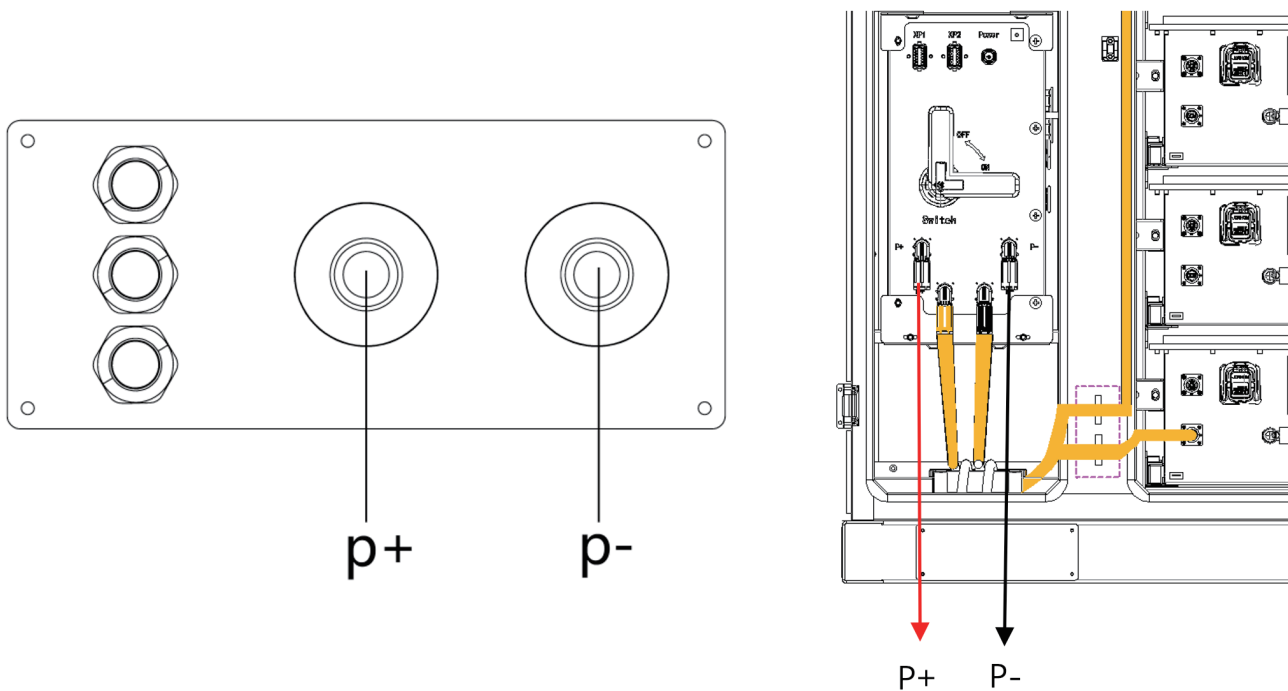


Figure 7-1 Power Cable

- The power cable, preferably AWG #1 DC1500V, shall enter the cabinet through the bottom.

8. UPS, Grid, Fire COM, PCS COM and ETH installation requirements

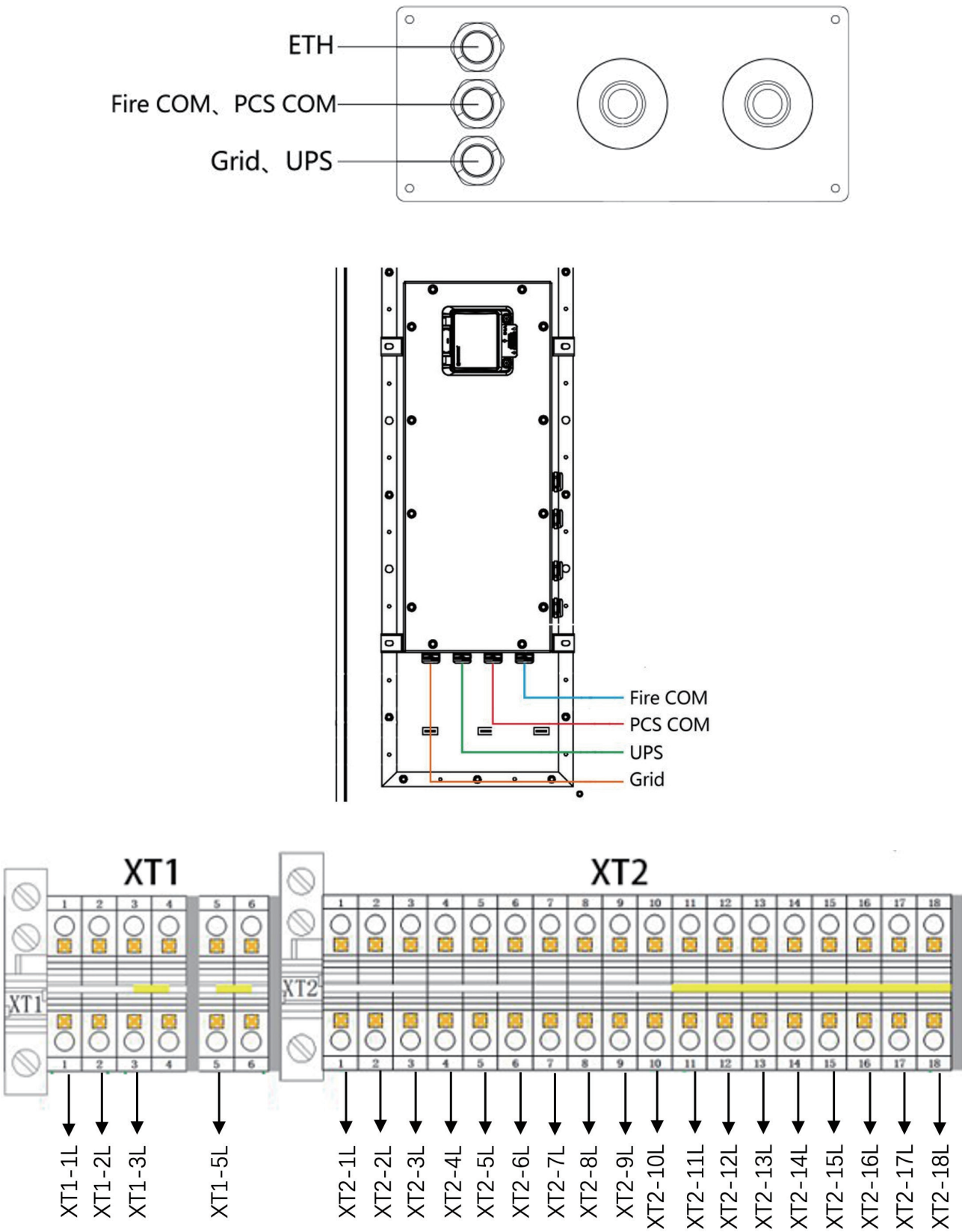


Figure 8-1 External Cable Connection

Terminal definition

Terminal	Pin	Definition	Functions	Remarks
XT1	XT1-1L	Grid-220L	Grid	
	XT1-2L	Grid-220N		
	XT1-3L	UPS-220L	UPS	
	XT1-5L	UPS-220N		
XT2	XT2-1L	EMU_485A	PCS COM	EMU↔PCS
	XT2-2L	EMU_485B		
	XT2-3L	BMS_CANH		BMS↔PCS
	XT2-4L	BMS_CANL		
	XT2-5L	DRY1_IN_P		EMU→PCS
	XT2-6L	DRY1_IN_N		
	XT2-7L	DRY3_IN_P		BMS→PCS
	XT2-8L	DRY3_IN_N		
	XT2-9L	DRY1_OUT_COM		PCS→EMU
	XT2-10L	DRY1_OUT_NO	Fire COM	
	XT2-11L	Connected to cluster CANH		
	XT2-12L	Connected to cluster CANH		
	XT2-13L	Connected to cluster CANL		
	XT2-14L	Connected to cluster CANL		
	XT2-15L	Connected to cluster 485A		
	XT2-16L	Connected to cluster 485A		
	XT2-17L	Connected to cluster 485B		
	XT2-18L	Connected to cluster 485B		

- Grid and UPS cables, preferably AWG #9 cables, are connected through the bottom of the cabinet. Installation scope of waterproof connector cables: 10-14mm
- Fire COM and PCS COM cables, preferably UL2464 24AWG*10C cables, are connected through the bottom of the cabinet. Installation scope of waterproof connector cables: 10-14mm
- ETH cables, preferably Category 6 network cables, are connected through the bottom of the cabinet and then through the transfer connector, followed by crimping of RJ45 connectors, as shown below.

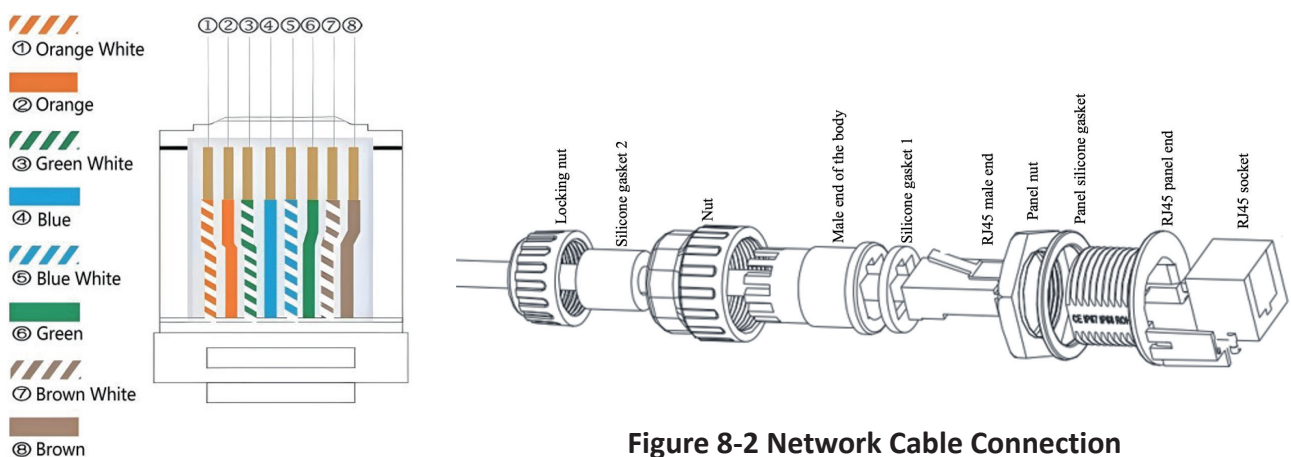


Figure 8-2 Network Cable Connection

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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