

All-in-One Outdoor Energy Storage Cabinet Quick Installation Guide

Model: C215L-A-EU



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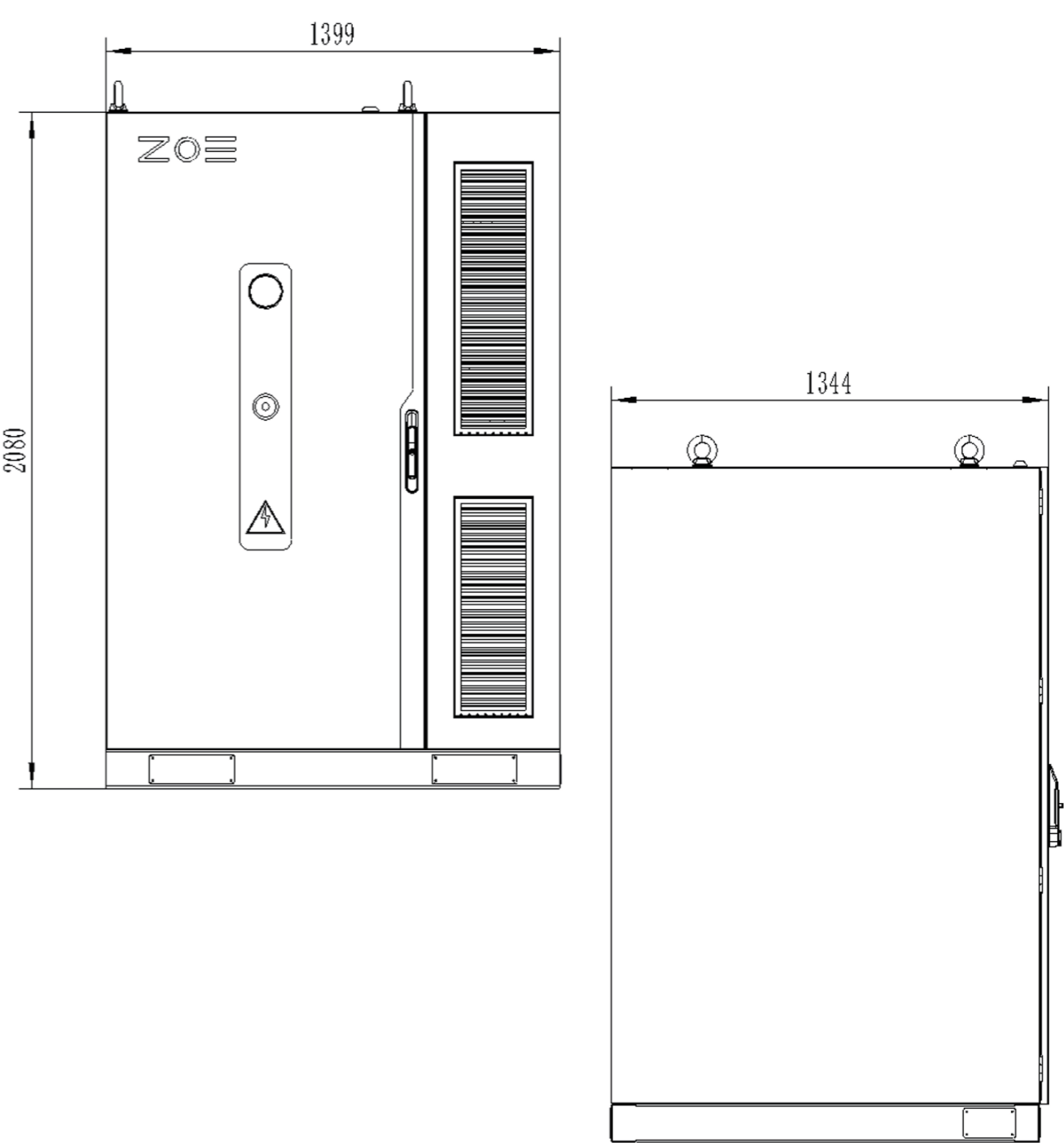
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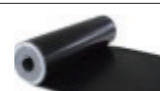







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1. Product features



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

2. Tools

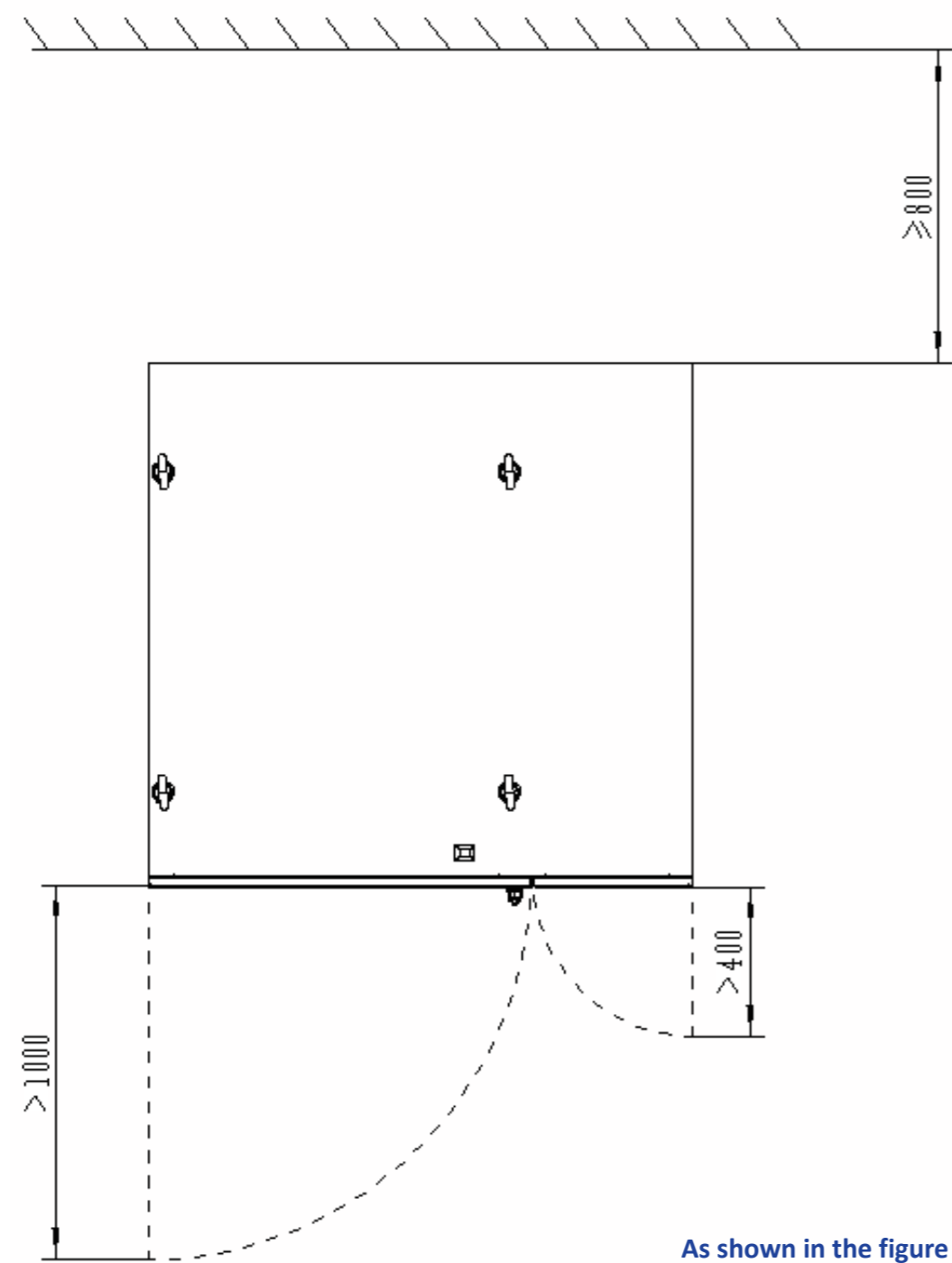
S.N.	Name	Purpose	Picture
1	Cable stripping knife	For stripping the electrical insulation of cable	
2	Wire stripper	For stripping the electrical insulation of wire	
3	Power drill (with 10-11 mm drill bit)	For drilling mounting holes on the ground	
4	PH2 cross-head screwdriver	For disassembling the bottom cover of the cabinet	
5	Hex socket set (with ratchet handle)	For connecting the power cable of the product	
6	Level staff	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 check before and upon electrification	
10	Ladder	For installing a hanger at height to fix the energy storage equipment	
11	Tape measure	For measuring the height of the mounting plate and the base from the ground upon wall mounting	
12	Wire crimper	For crimping the input terminal	
13	Copper lug crimper	For crimping the power inlet wire	
14	Ethernet cable crimper	For crimping communication cable	

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

3. Safety Cautions

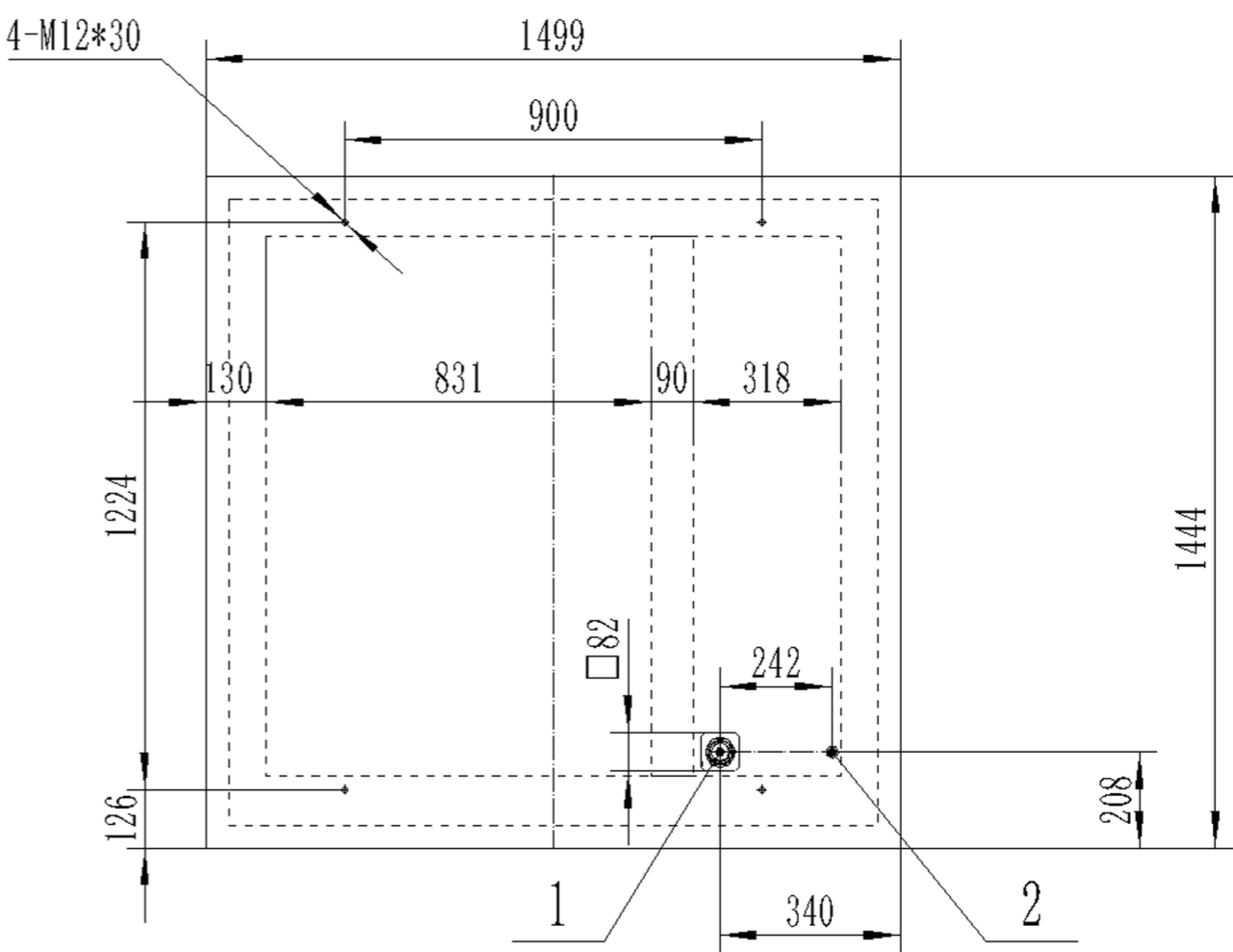
- (1) It is required to observe safety management regulations of the construction site upon entry.
- (2) To enter the construction site, one shall wear a sturdy safety helmet properly (with the strap well fastened), and avoid loose clothes and slippers. Working under influence of alcohol or smoking on construction site are not permitted.
- (3) When operating at height: safety helmet shall be well fastened, safety belt shall be used properly, working tools shall be firmly attached, and wear non-slip shoes.
- (4) It is required to wear mask in case of heavy dust or painting operation.
- (5) entering of hoisting areas or other dangerous areas is prohibited. Do not get under any vertical operations.
- (6) Keep a safe distance from mechanical equipments and electrical lines to avoid mechanical and electrical injury.
- (7) Workers using mobile electric tools are required to master use of the tools and observe precautions, wear insulting shoes and gloves, and have metal housing well grounded or connected to the neutral for protection.
- (8) For temporary access to electricity on site, the electrical box shall be kept in good conditions, and damaged electrical components must be timely replaced.
- (9) Rubber cable shall be used for temporary access to power on site. It is prohibited to use plastic twisted pair and to insert the wire directly into a socket.
- (10) Live-line work shall be avoided wherever possible.
- (11) For operation in a foundation pit, on a roof, at any edge or in a hole, the operator shall be concentrated and be cautious of possible falling objects.
- (12) It is required to carefully observe environmental conditions and get aware of any present iron nails, steel bars on the ground, so as to avoid puncture, collision, catching, falling or other injuries.
- (13) Protective facilities, safety signs and warning plates on the construction site may not be removed without permission.
- (14) Construction equipment on site must be maintained and serviced to remain in sound conditions. Operation of faulty equipment or excessive load is prohibited.

4. Location Selection



- At least 800mm of clearance shall be reserved at the back of the cabinet for the maintenance access of the fan
- At least 1000mm clearance shall be reserved in front of the cabinet for door opening

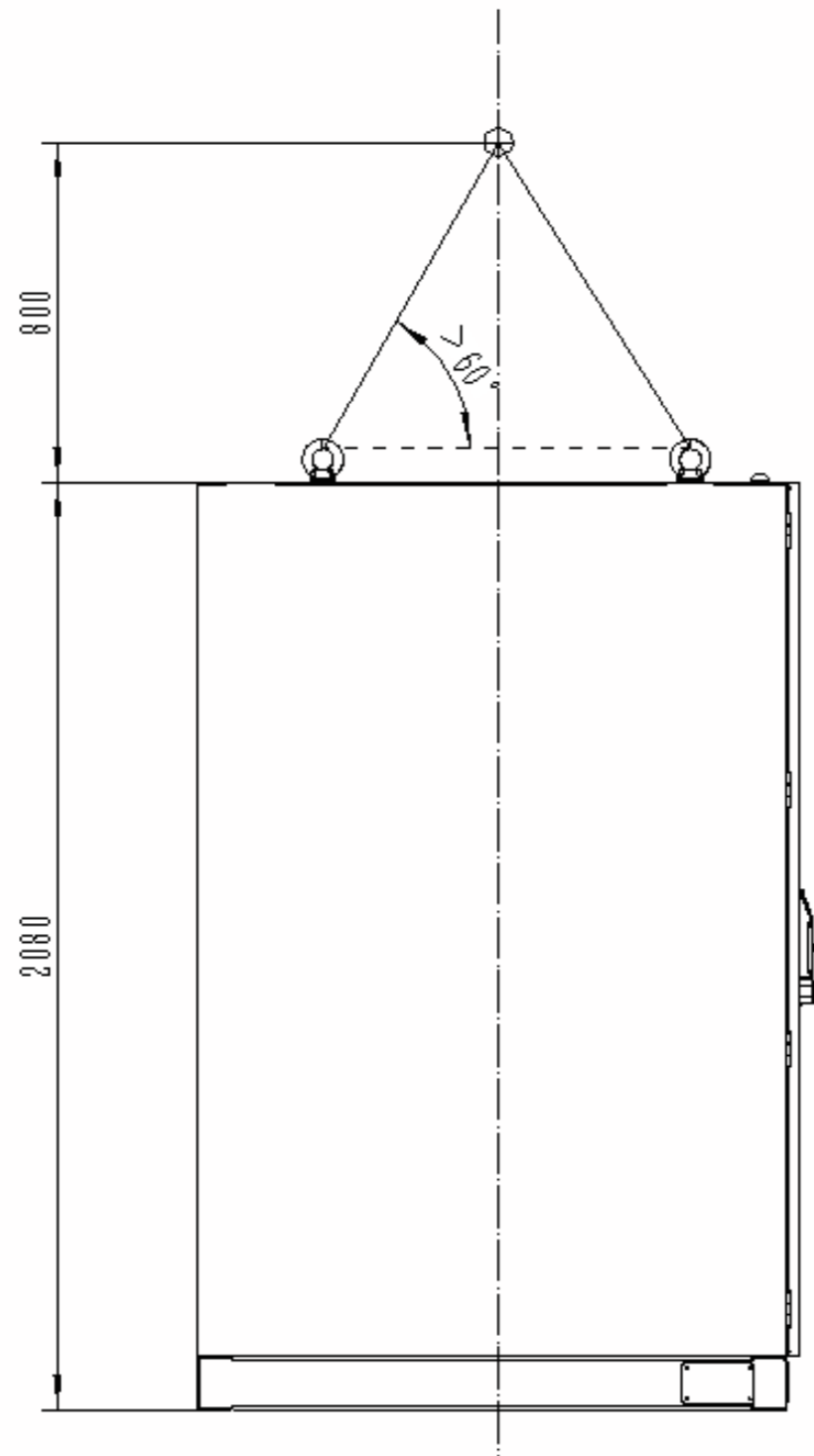
5. Foundation Requirement



- 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
- Reinforcement is required at the perimeter of 130mm and the transom of 90mm to achieve a load bearing capacity of 2.5T
- Location No. 1 shows a hole for running the main cable; location No. 2 shows a hole for running the Ethernet cable and UPS power cable

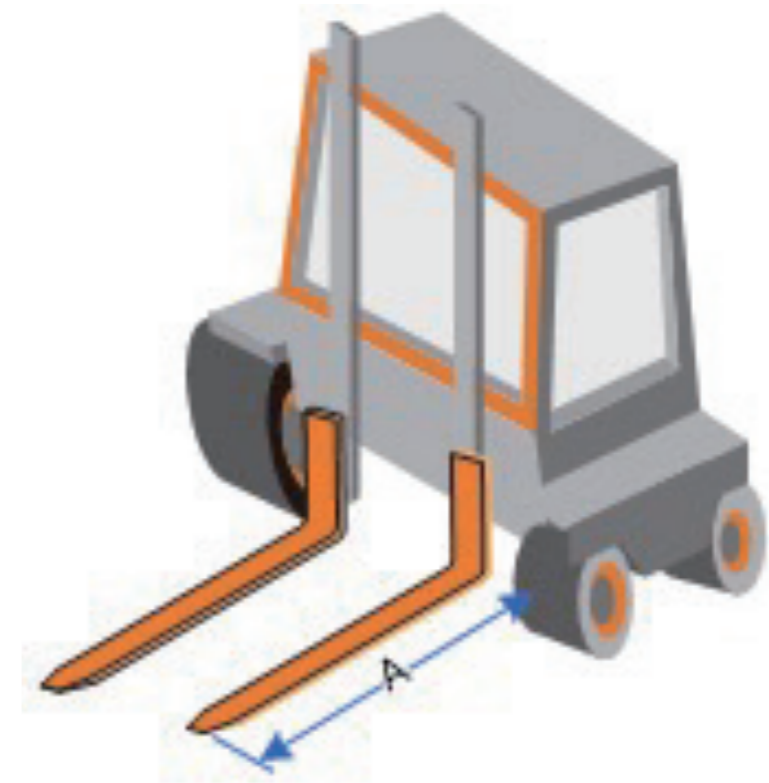
6. Transportation Requirement

Lifting and lowering the cabinet



As shown in the figure

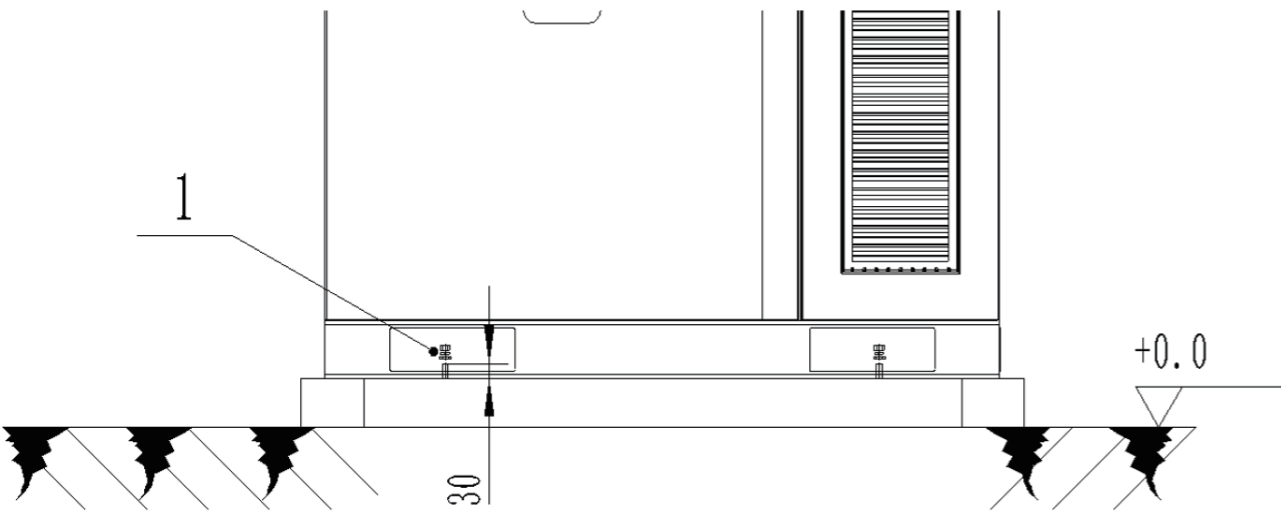
- The lifting rope shall go through the four rings; the lifting height shall reach 800mm; in this way, the included angle formed by the lifting rope will be greater than 60°
- The lifting rope shall have a load-bearing capacity of 2.5T; lifting and lowering operations shall be carried out steady



As shown in the figure

- The forklift shall meet the gear length $A > 1500\text{mm}$
- $870\text{mm} < \text{gear width} < 1130\text{mm}$, fork weight 2.5T
- The four forklift hole covers shall be open; the forklift shall extend into the holes, move slowly and operate steadily

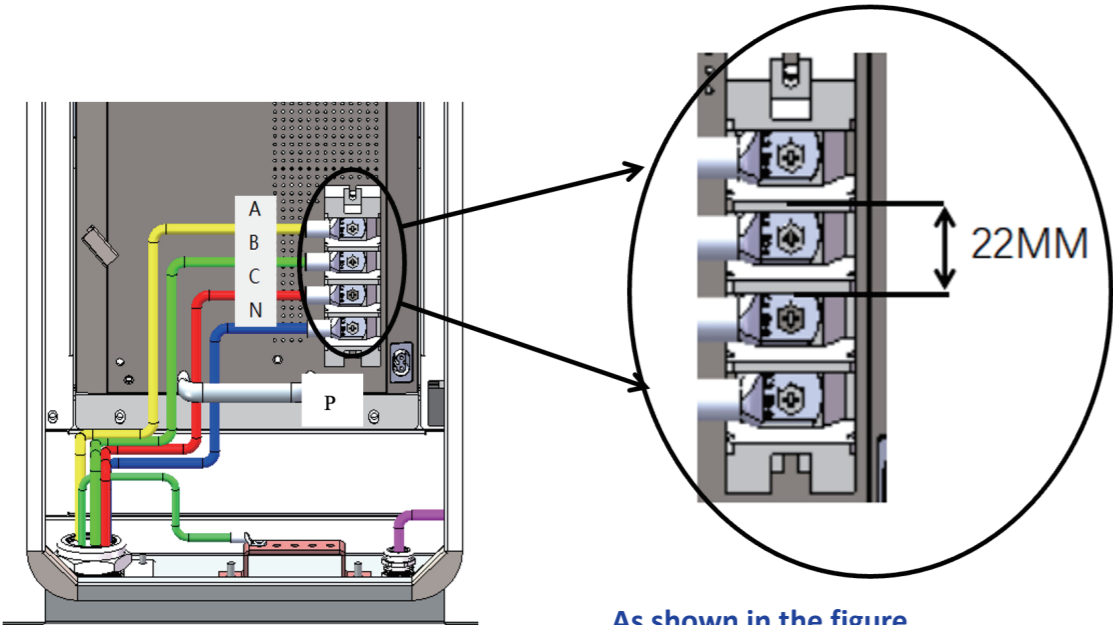
7. Cabinet Reinforcement



As shown in the figure

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

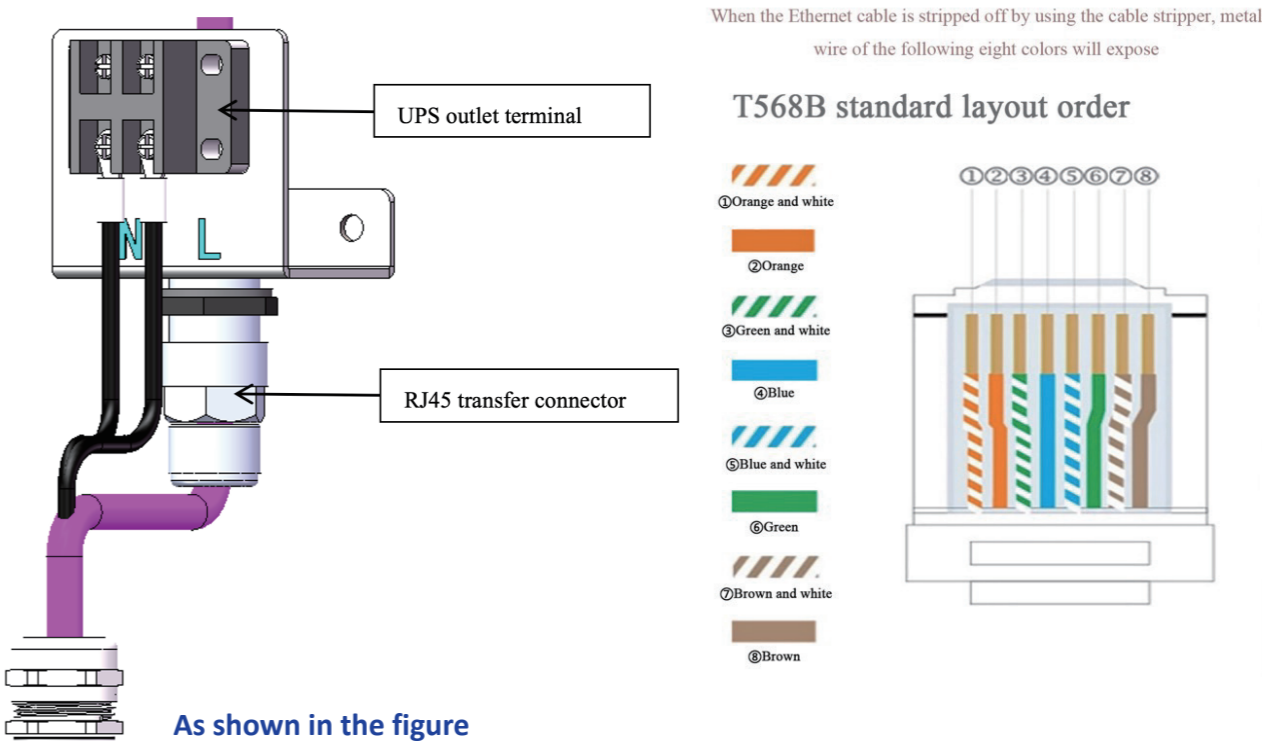
8. Electrical Connection Requirement



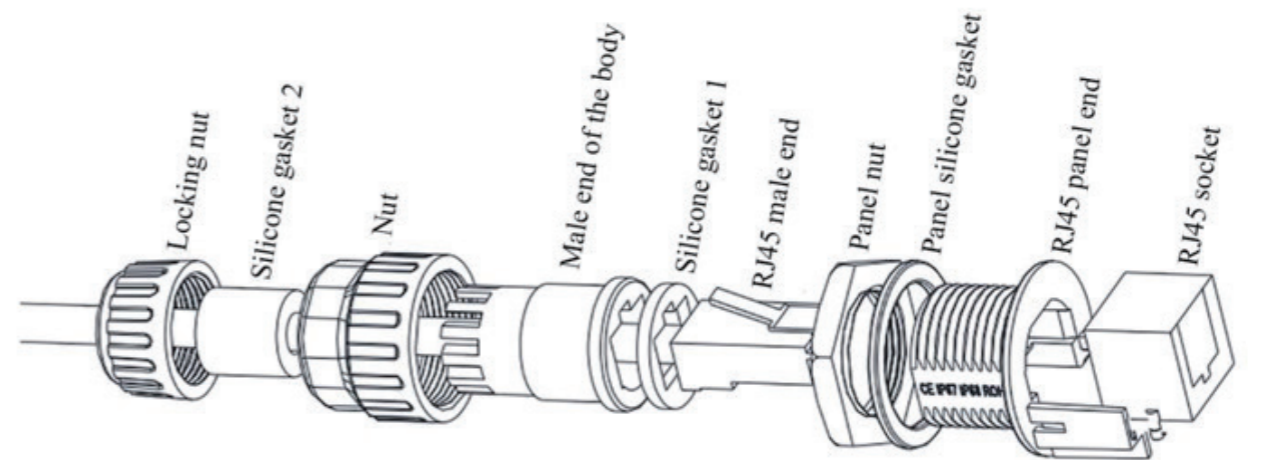
As shown in the figure

- The power cable, preferably YJV-3×50+2×25, shall enter the cabinet from the bottom
- 50mm² cable is used for A/B/C; 25mm² cable is used for N/PE;
- the crimped terminal width shall be ≤22mm
- It is connected to the input terminal A/B/C/N of the PCS;
- the wiring screw tightening torque is 18-22N.M
- PE connects to the grounding copper strip; the wiring screw tightening torque is 8-10 N.M

9. Communication Connection Requirement



- For external communication of EMU, it is recommended to use Ultra Cat6 cable; the cable enters the cabinet from the bottom
- After the cable runs through the transfer connector, the RJ45 is crimped. The overall installation is shown below



AC220V UPS power cable, preferably 22AWG cables × 2, connected to the L/N of the outlet terminal

10. Other Requirements

- Put back the forklift cover
- Turn tight the waterproof joint of the power cable, and fill packing material to an extent as necessary
- Turn tight the waterproof joint of the communication cable, and fill packing material to an extent as necessary

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