



REVO

Product Installation Manual

Version:1.03

REVO

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SHENZHEN CENTER POWER TECH CO., LTD

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Term definitions

The following acronyms and their meanings are used in this Manual&Software.

BMS	Battery Management System
SOC	State of Charge
SOH	State of Health
UPS	Uninterruptible Power Supply
OT	Over Temperature
OV	Over Voltage
UV	Under Voltage
HMI	Human Machine Interface
Charge OC	Charge Over Current
Discharge OC	Discharge Over Current
Cell OV	Cell over voltage
LFP	LiFePO4 Technology
CBMS	Cabinet Battery Management System
GBMS	Group Battery Management System
TP	Ten-or-Fifteen-min Backup Time Solution for Three-phase UPS
Pack OV	Pack over voltage
Pack UV	Pack under voltage
Charge OC	Charge over current
Discharge OC	Discharge under current
Charge UT	Charge under temperature
Discharge UT	Discharge under temperature
Charge OT	Charge over temperature
Discharge OT	Discharge over temperature

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CBMS Failure	Cabinet BMS failed
BMU Failure	Modules BMS communication lost or modules BMS failed
BMU	Batteries Management Unit (Modules BMS)

Torque Table

Terminal	Torsion
M4	$2 \pm 10\% \text{Nm}$
M5	$4.5 \pm 10\% \text{Nm}$
M6	$7 \pm 10\% \text{Nm}$
M8	$15 \pm 10\% \text{Nm}$
M10	$30 \pm 10\% \text{Nm}$
M5(NYLON)	$0.48 \pm 10\% \text{Nm}$
M8(NYLON)	$1.98 \pm 10\% \text{Nm}$
M10(NYLON)	$3.9 \pm 10\% \text{Nm}$

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1 Overview

Range of application

This Manual introduces VISION REVO series product, its installation, and other relevant aspects. VISION REVO system developed by **SHENZHEN CENTER POWER TECH.CO.,LTD.** is suitable for high-voltage lithium battery system, and widely used in UPS backup power, large energy storage and other applications.

For the reader

This Manual of installation, is suitable for professional lithium battery technicians, and relevant end users who may need to view technical information.

This Manual is suitable for the installation of all lithium batteries cabinet for the TP, TPH and TPL series of REVO.

Installation Manual

The Installation Manual should be carefully consulted before using the product. Please properly store and put the Manual at an accessible place. All the information in the Manual, including the Figures and symbols, is owned by **SHENZHEN CENTER POWER TECH.CO.,LTD.** Such information should not be used by non-internal personnel of **SHENZHEN CENTER POWER TECH.CO.,LTD.** without authorization.

The Manual will be constantly updated and revised, and the users shall refer to the purchased products for the latest updates. For more details, please browse <http://www.vision-batt.com/> or get the latest Installation Manual through the sales channel.

2 Product description

2.1 Brief introduction

REVO series lithium battery system is developed by **SHENZHEN CENTER POWER TECH.CO.,LTD**. It is suitable for high-voltage lithium battery system and is mainly used in UPS backup power or energy storage, high-precision multi-string (16S) cell voltage and temperature acquisition. The module adopts passive equalization, and the maximum equalization current reaches 300mA. The external communication interface adopts isolated CAN bus to realize the cascade communication of up to 15 BMU. This Manual describes the type and size, performance, technical characteristics, warnings and precautions of REVO series lithium battery system. This specification applies only to backup battery products provided by **SHENZHEN CENTER POWER TECH.CO.,LTD**.

2.2 Solution introduction

REVO series uses VISION high-rate LFP batteries and self-developed BMS system, integrated remote cloud management system and intelligent fire protection module, **with high reliability, good stability, long service life and excellent safety performance.**

2.3 Product functions and advantages

REVO series has four levels of safety protection to ensure the safety and reliability of the system throughout the life cycle; it adopts a three-level management architecture design to accurately monitor the status of each component in the system, which ensures stable system performance and ensure the safety of user load power supply.

2.4 product list

Items below are the carton Units we send directly. Detailed list of accessories will be covered into

Item	Name	Description	Ref.
1	LIBVIS8×50250IEC	8 * 50Ah modules cabinet	
2	LIBVIS10×50250IEC	10 * 50Ah modules cabinet	
3	LIBVIS12×50250IEC	12* 50Ah modules cabinet	
4	LIBVIS8×100630IEC	8* 100Ah modules cabinet	
5	LIBVIS10×100630IEC	10* 100Ah modules cabinet	
6	LIBVIS12×100630IEC	12 * 100Ah modules cabinet	

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3 Safety instruction

3.1 Label description

In order to ensure the users' safety while using this product, the Manual provides pertinent identification information and corresponding symbols.

Please read carefully the following list of symbols used in this Manual.

Table 3.1 Safety symbols



Low potential danger: it may result in mild or moderate injury



High risk of serious injury or death



High voltage inside the cabinet: a touch may lead to electric shock danger



Wear safety goggles all the time during installation or maintenance



Service by properly trained and qualified personnel only

Disconnect charger and Verify no-voltage before maintenance

Turn off the battery system and Lock-out/Tag-out before maintenance



Recycle lithium-ion batteries



Firmly ground to ensure the safety of operators and protect the grounding terminal (PE)



Emphasis and supplement: a quick way to master this step



Wear professional protective equipment to prevent personal injury.



Do not dispose in trash, follow local regulations and manufacturer's instruction



Servicing of batteries must only be performed or supervised by qualified personnel knowledgeable of batteries and the required precautions. Keep unqualified personnel away from batteries.



Wear professional protective equipment to prevent personal injury.

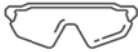


Do not dispose of batteries in a fire as they can explode

3.2 Installation tools

Table 3.2 Tools

Tools prepared before installation are as follow:

Items	Tools		
Protection	Multi-meter 	Protective gloves 	Insulated shoes 
	ESD wrist strap 	Safety goggles 	

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Installation	Electric screwdriver 	Cross screwdriver 	Socket spanner 
	slot type screwdriver 	wire stripper 	
Test	Clamp meter 	Laptop 	

3.3 Attention items

3.3.1 Manual custody

This Manual contains important information about REVO series lithium battery. Reading carefully before the operation of REVO series product will help you get familiar with it.

- ❖ This Manual should be put at an accessible place to ensure that maintenance personnel and others have easy access to it.
- ❖ Please strictly follow the Manual while operating REVO series products. Otherwise, it is possible to cause equipment damages, casualties, property loss and so on.

3.3.2 Identity protection

- ❖ The warning labels on the REVO series contain important safety protection information of the product. Tearing or damaging is strictly prohibited.
- ❖ REVO series back panels and front doors are equipped with nameplates that

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contain important information of the product. Tearing or damaging is strictly prohibited.

3.3.3 Safety warning label

In the process of installation, daily maintenance, overhaul and other operations of REVO series products, to prevent mis-operation, by irrelevant personnel and accidents, the following agreements must be noticed:

- ❖ The front and rear switches of REVO products should be clearly marked to prevent accidents caused by false switching.
- ❖ Set up warning signs or safety warning belts near the operation area to keep irrelevant personnel out.
- ❖ After maintenance and overhaul, pull out the key to the cabinet door and keep it properly.

3.3.4 Personnel requirement

- ❖ Only qualified personnel can carry out various operations on the product.
- ❖ Operators should be fully familiar with the system composition and working principles of entire REVO series products.
- ❖ The operator should be fully familiar with the User Manual of the product.

3.3.5 Battery protection



There is a deadly high voltage in the energy storage backup battery between the positive and negative poles of the battery system!

During installation or maintenance, make sure that the connection between the battery pack and the UPS is completely disconnected.

3.3.6 Electric measurement



After the installation of the energy storage backup battery, there is a high voltage. An accidental contact with the positive and negative poles may lead to deadly injury. Therefore, please watch out when you need to measure the power.

- ❖ Prepare for insulation protection (e.g. wearing insulating gloves, etc.)
- ❖ To ensure personal safety, one must be accompanied by others.

3.3.7 Measuring instrument

To ensure that the electrical parameters meet the requirements, relevant electrical measuring equipment should be used during the electrical connection and trial operation of the **REVO** system.



The measuring equipment with appropriate measuring range should be in line with the on-site working conditions.

- ❖ Ensure correct and standard electrical connection of the instrument. Avoid the arc danger.

3.3.8 Maintenance and repairing



After disconnecting the energy storage battery cabinet and **UPS**, confirm the disconnection again before opening the front door for maintenance or overhaul.

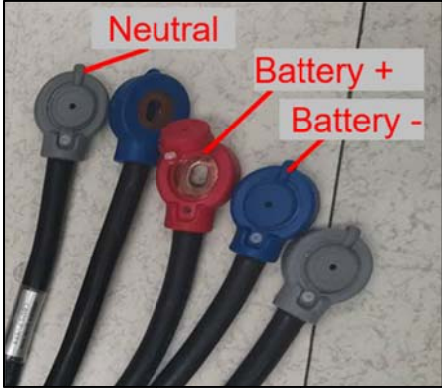
In the maintenance and overhaul, the following items should be concerned:

- ❖ Ensure that the energy storage battery cabinet is not accidentally recharged.
- ❖ Ensure no electricity in the energy storage battery cabinet with a multimeter.
- ❖ Insulate the possible electric part of REVO with insulation materials. Insulate

the bare metal part of the operating tool and the positive and negative terminal of the battery module with insulating tape.

- ❖ Ensure necessary ground connection.

3.3.8 Terminal Color distinguish

	Neutral : Gray	
	Positive: Red	
	Negative: Blue	

3.4 Safety notice



DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Read all instructions in the installation manual before installing or working on this product.

Failure to follow these instructions will result in death or serious injury.

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DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Install the product in a temperature controlled indoor environment free of conductive contaminants and humidity.

Install the product on a non-flammable, level and solid surface (e.g. concrete) that can support the weight of the system.

Failure to follow these instructions will result in death or serious injury.



DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Batteries can present a risk of electric shock and high short-circuit current. The following precautions must be observed when working on batteries

Remove watches, rings, or other metal objects.

Use tools with insulated handles.

Wear protective glasses, gloves and boots.

Do not lay tools or metal parts on top of batteries.

Disconnect the charging source prior to connecting or disconnecting battery terminals.

Determine if the battery is inadvertently grounded. If inadvertently grounded, remove source from ground. Contact with any part of a grounded battery can result in electric shock. The likelihood of such shock can be reduced if such grounds are removed during installation and maintenance (applicable to equipment and remote battery supplies not having a grounded supply circuit).

Failure to follow these instructions will result in death or serious injury.

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DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Do not drill or cut holes for cables or conduits with the gland plates installed and do not drill or cut holes in close proximity to the product.

Failure to follow these instructions will result in death or serious injury



DANGER

The product is not designed for and must therefore not be installed in the following unusual operating environments:

Damaging fumes

Explosive mixtures of dust or gases, corrosive gases, or conductive or radiant heat from other sources

Moisture, abrasive dust, steam or in an excessively damp environment

Fungus, insects, vermin

Salt-laden air or contaminated cooling refrigerant



DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

When replacing batteries, always replace with the same battery module type.

Failure to follow these instructions will result in death or serious injury

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DANGER

Electrical equipment must be installed, operated, serviced, and maintained only by qualified personnel.

Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices.

Turn off all power supplying the UPS system before working on or inside the equipment.

Before working on the UPS system, check for hazardous voltage between all terminals including the protective earth.

The battery cabinet contains an internal energy source. Hazardous voltage can be present even when the UPS system is disconnected from the utility/ mains supply. Before installing or servicing the UPS system, ensure that the units are OFF and that utility/mains and batteries are disconnected.

A disconnection device (e.g. disconnection circuit breaker or switch) must be installed to enable isolation of the system from upstream power sources in accordance with local regulations. This disconnection device must be easily accessible and visible.

The battery cabinet must be properly earthed/grounded and due to a high leakage current, the earthing/grounding conductor must be connected first.

Failure to follow these instructions will result in death or serious injury.

NOTICE

RISK OF EQUIPMENT DAMAGE

Batteries should not be stored beyond 12 month from the date of arrived at warehouse. If they are stored for longer the calendar degradation will cause the batteries to be irreversible degraded beyond what is expected-a reduced runtime will be the consequence .

If the UPS system remain DE-energized for a long period, VISION recommends to shut down the batteries cabinet completely.

Failure to follow these instructions can result in equipment damage.

4 Module

4.1 Module description

VISION REVO TP series back up batteries adopt the high capacity, high safety LFP battery pack integration in the industry. Modules are structured in TP series, TPH series, and TPL series. Within the module, integrated high-precision BMU units monitor and gather real-time module voltage and temperature, to realize intelligent temperature control at electric core level and intelligent balance of battery cell, which improves system efficiency and battery cycle life. The module is designed by filling the inside of the cold-rolled sheet metal shell, achieving high safety and reliability. At the same time, the module is designed with high stability and disturbance immunity, to ensure the safe and reliable operation of the battery cluster after it is integrated into the system.

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4.2 Module specification

Table 4.2.1 Modules spec

Item	TP-10:51.2V50Ah	TP-20:51.2V100Ah
Commercial Ref ID	LIBVISMOD50	LIBVISMOD100
Nominal capacity	51.2V50Ah	51.2V100Ah
Cells configuration	16S1P	16S2P
Size(W*H*D):mm	442*108*650	442*150*800
Weight	36kg	70kg
Max discharging current	200A	400A
Max charging current	50A	100A
Recommended operating temperature	15- 35° C	15- 35° C
Operating ambient temperature	0 ~ 40° C	0 ~ 40° C
Humidity	0~95% non-condensing	0~95% non-condensing
Resistance	7~9m Ω	4.5~6.5m Ω
Voltage	52.5~53.2V	52.5~53.2V

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5 Cabinet BMS

5.1 CBMS description

BMS system consists of three levels of architecture. **The cabinet-level management system is Cabinet BMS, hereinafter referred to as CBMS.** CBMS is responsible for battery current detection, data collection and analysis, alarm and protection control, communication with upper and lower levels, etc. CBMS consists of main circuit breaker, charging and discharging double-loop control switch circuit, high-voltage isolation detection circuit, parallel processing circuit, high-voltage power supply and DC starting circuit, CBMS chassis and related wiring harness. State management and action protection of over charge, over discharge, over current, short circuit can realize and ensure the safety and reliability of the whole system.

5.2 CBMS specification

Table 5.2.1 Modules spec

Item	50Ah Cabinet	100Ah Cabinet
Commercial Ref ID	LIBVISSG250IEC	LIBVISSG630IEC
Out put configuration	2/3 wires	2/3wires
Rated Power: kw	93	186
Modules in configuration	8-12	8-12
Range of Voltage	(8-12)*51.2V	(8-12)*51.2V
Max discharging current	250A	500A
Size(W*H*D)	442*600*178 mm	442*650*222.5 mm

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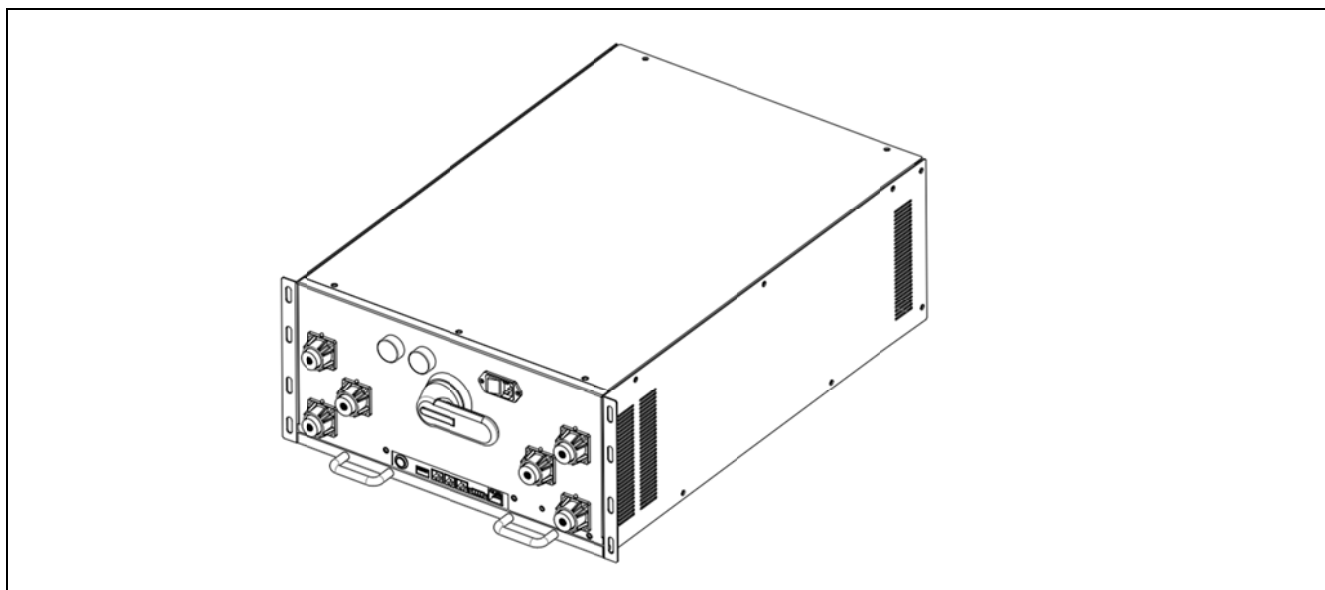
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Weight	25 kg	42 kg
Short Circuit current	5000/15ms	9500/15ms
Recommended operating temperature	15- 35° C	15- 35° C
Operating ambient temperature	0 ~ 40° C	0 ~ 40° C
Humidity	0~95% non-condensing	0~95% non-condensing
Size with Package (W*H*D)mm	600*800*200	600*880*230
Weight with Package	29.5 kg	45 kg

Figure 5.2.2 CBMS appearance



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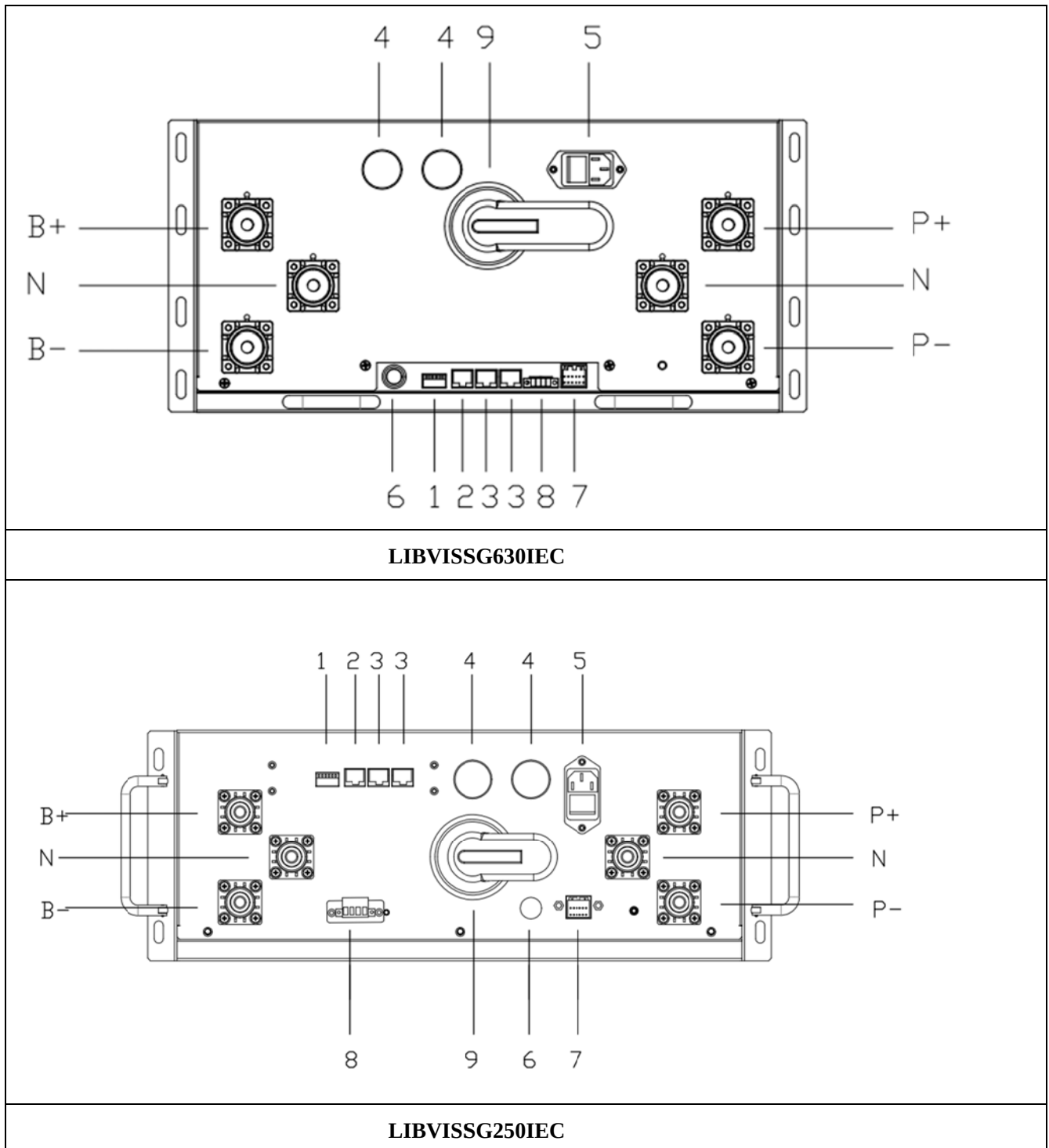
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5.3 CBMS function panel

Figure 5.3.1 CBMS define mark



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Table 5.3.2 CBMS panel function definition and description

Item	Name	Description	Remark
1	Dial switch	Set up CBMS ID address	Address field 1-15
2	LAN	LAN interface	update BMS firmware and monitor software
3	COM	COM1 COM2 interface with GBMS (Parallel use)	CAN communication
4	Indicator light	Indicates the current working status of CBMS	Charge and discharge, static, fault state
5	AC input	CBMS AC power supply interface	AC power supply for public electricity
6	DC Switch	DC start switch	Start up press at least 3s
7	BMU Communication interface	Interface for communication with battery modules	CAN Communication interface
8	24V	24V DC output for GBMS power supply	24VDC output and used for GBMS power supply
9	Breaker	Used to control dc output shutdown	Shunt trip, short circuit protection function

5.4 LED indicator status and definition

As a human-computer interface, LED indicator indicates the current working status of lithium battery system. The explanation is as follows:

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Table 5.4 LED indicator status

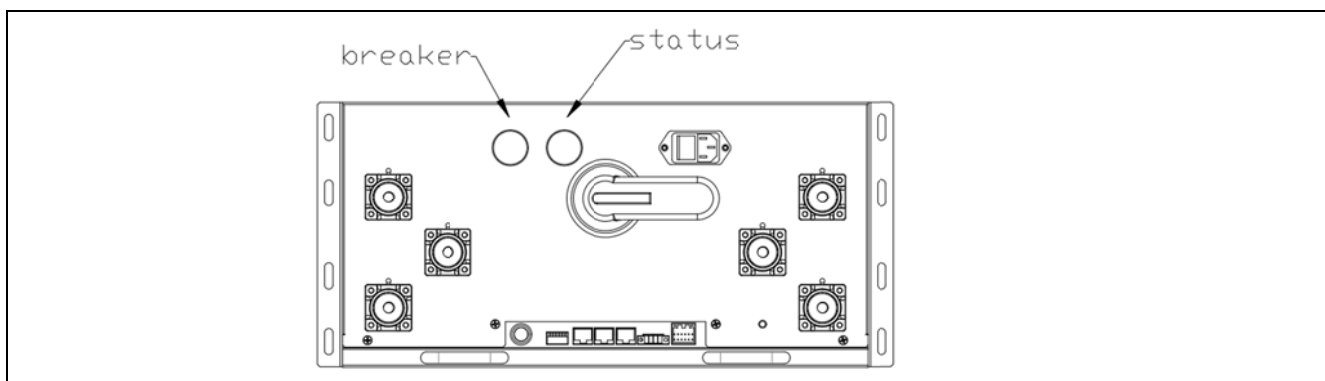


Table 5.4 LED Indicator status

Status	Type	Switch ON	Status
		●	●
Power off	Dormant	●	●
Standby	Normal	●	●
	Warning	●	●
Charge	Normal	●	●
	Warning	●	●
	Protect	●	●
Discharge	Normal	●	●
	Warning	●	●
	Protect	●	●
Failure	Breaker trip	●	●



- Black out, ● red light is always on, ● green light is always on
- Red light flashing ● Green light flashing ● yellow light is always on

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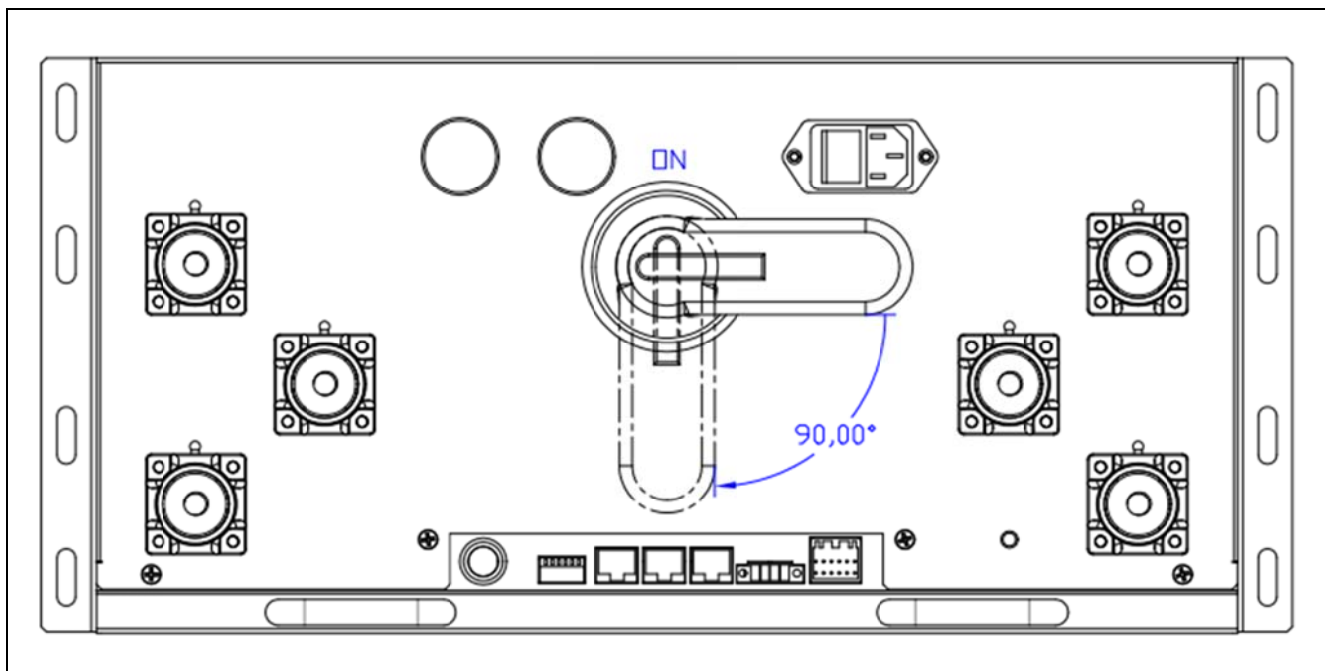
5.6 Breaker

Each CBMS models are equipped with a circuit breaker to control the DC output terminal (P+/P-/N). The circuit breaker switch can safely disconnect electrical connections with UPS.

ON: Normally Close circuit breaker: rotate clockwise to Vertical position.

Off: Normally open circuit breaker: rotate clockwise to Horizontal position.

Figure 5.5.1 MCB ON



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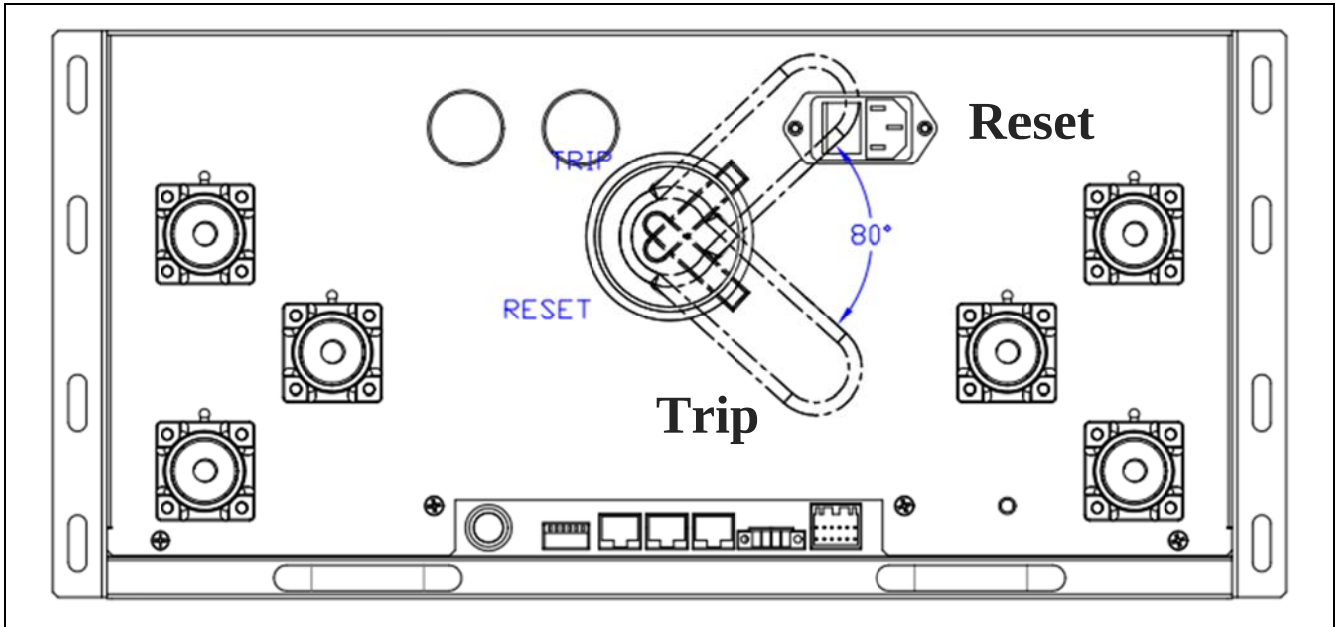
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Figure 5.5.2 MCB reset

RESET: When tripping, rotate MCB counterclockwise to the reset position; turn the breaker to its normal position as follows:



To prevent the circuit breaker from being damaged, it is forbidden to switch on again within 5 minutes after the circuit breaker trips.

6 GBMS

6.1 GBMS description

GBMS is the top layer BMS of lithium battery system and an integrated display for the system. It is responsible for the data collection and processing of its lower layer CBMS. With real-time analysis, GBMS displays the CBMS operation status on the screen at the control cabinet level. It interacts with UPS through CAN/RS485/dry contact to ensure the reliability and safety of the system operation in its life cycle.

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6.2 GBMS specification

Table 6.2.1 GBMS spec

Item	Description
Commercial Ref ID	LIBVISGBMS
Dry contact	3 output;1 input
Size(W*H*D)mm	300*170*66
Weight	2.2 kg
Recommended operating temperature	15- 35° C
Operating ambient temperature	0 ~ 40° C
Humidity	0~95% non-condensing
Size with Package (W*H*D) mm	350*200*75
Weight with Package	2.5 kg

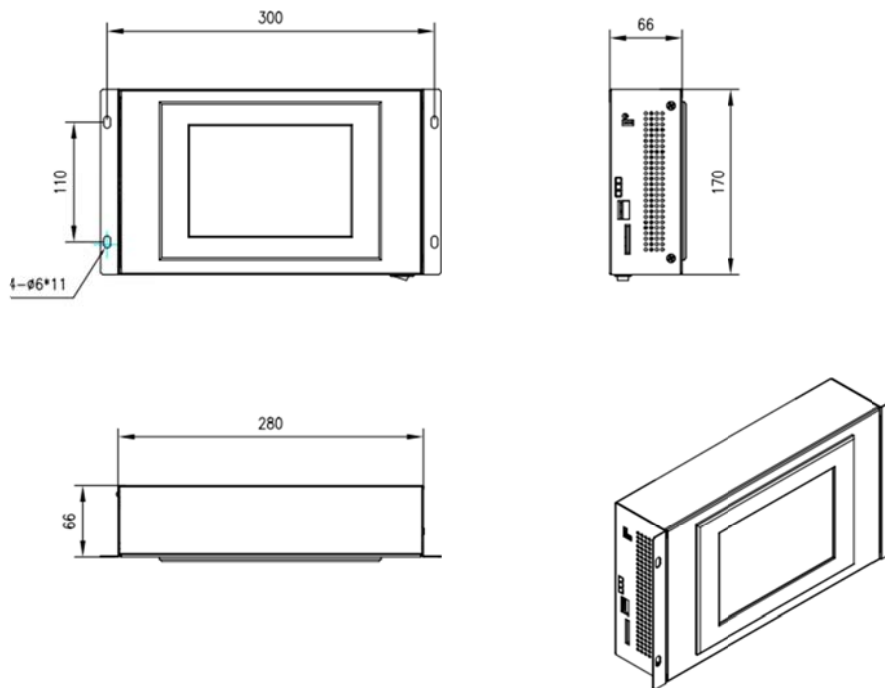
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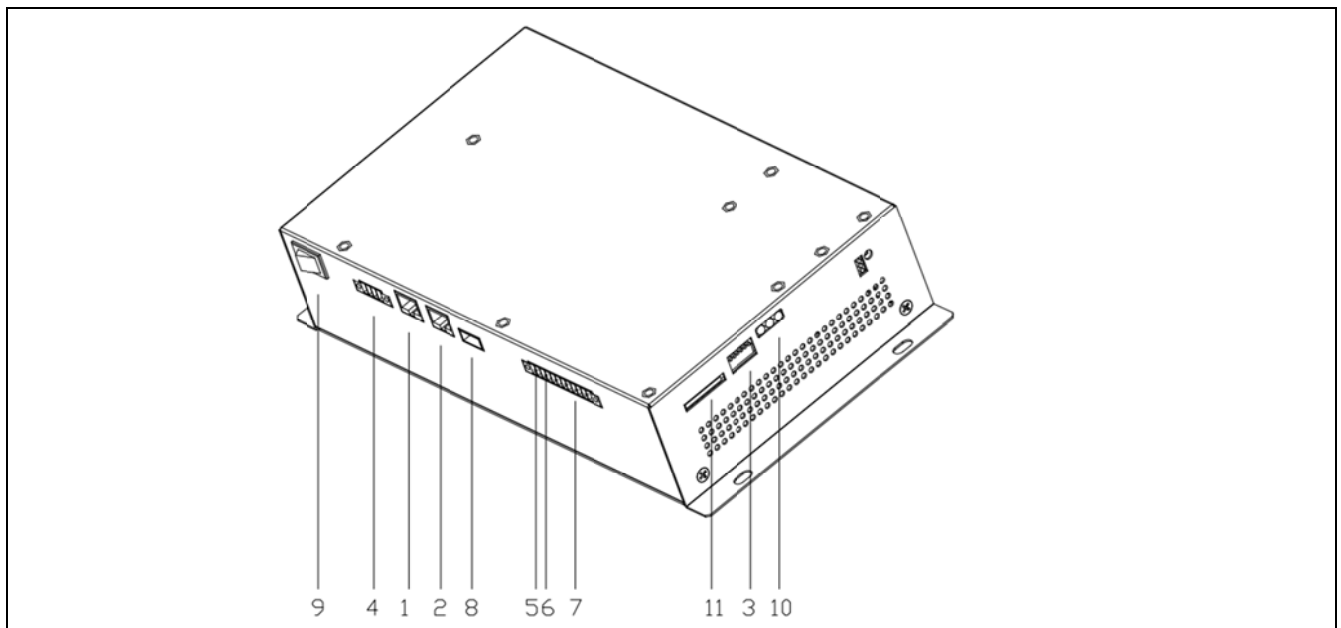
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Figure 6.2.1 GBMS description: mm



6.3 GBMS function panel and definition

Figure 6.2.2 GBMS description



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Table 6.2.2 GBMS panel function definition and description

Item	Designation	Description	Remarks
1	CBMS interface	The connector port with CBMS	CAN Communication
2	LAN	LAN interface	Updating GBMS program
3	Dial switch	Reserved function	GBMS in parallel
4	DC24V-IN	Supply power port to GBMS	Supplied by CBMS
5	CAN	Communicate port with UPS	CAN2.0
6	RS485	Communicate port with UPS	Mod bus RTU protocol
7	Dry contact	D1:NO D2:NC D3:NO I1:NC	D1:Charger shutdown signal D2:Breaker ON signal D3:Secondary protection signal I1:EPO(input) When EPO active,open
8	HMI update	Update the HMI interface	
9	ON/OFF	GBMS DC power supply switch	
10	Indicator	GBMS running indicate	
11	SD card	Reserved	

7 Cabinet

7.1 Cabinet description

Designed with high strength framework, REVO series Li-ion battery system cabinet meets the IP20 Criterion. Inside the batteries cabinet, galvanized trails are designed to connect with the bus bar and used together with galvanized batteries module, which supports the grounding of the cabinet. Besides, the size is compatible to the 19 inches standard.

7.2 Cabinets specification

Table 7.2.1 Modules spec

Item	50Ah Cabinet	100Ah Cabinet	100Ah Cabinet (12 modules)
Commercial Ref ID	LIBVISRAC50Ah2000	LIBVISRAC100Ah2000	LIBVISRAC100Ah2300
Size(W*H*D):mm	600*1000*2000	600*1000*2000	600*1000*2300
Weight	145 kg	150 kg	178 kg
IP Level	20	20	20
Recommended operating temperature	15- 35° C	15- 35° C	15- 35° C
Humidity	0~95% non-condensing	0~95% non-condensing	0~95% non-condensing
Size with Package (W*H*D):mm	660*1060*2160	660*1060*2160	660*1060*2460
Weight with Package	160kg	165kg	193kg

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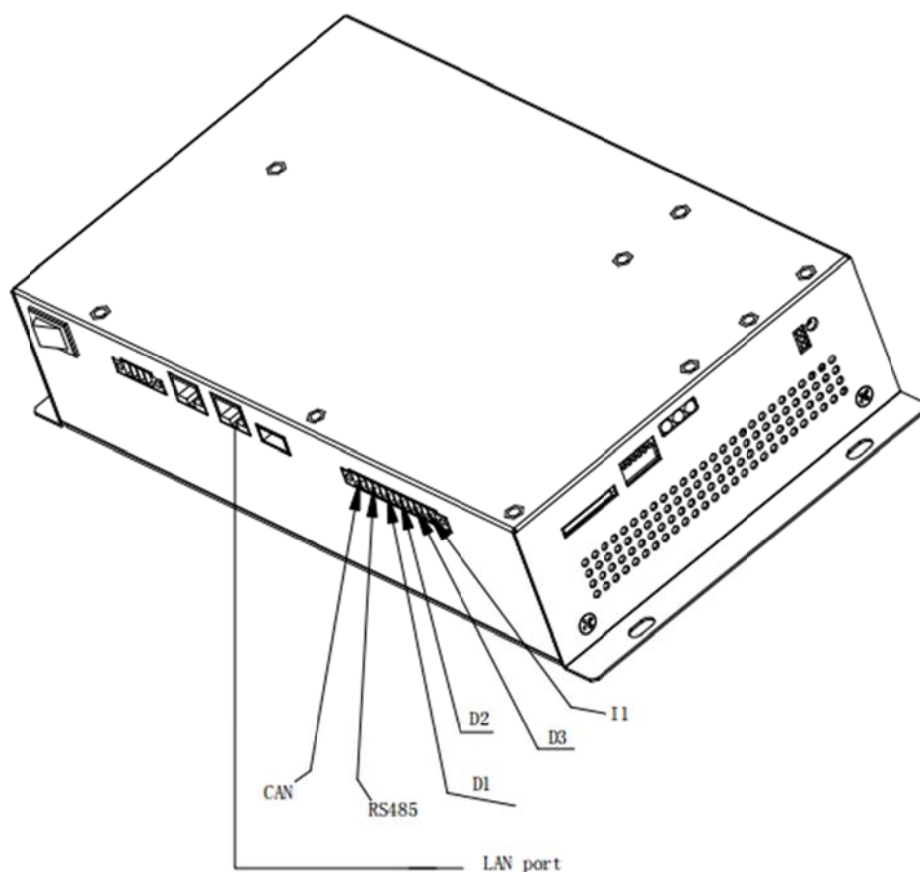
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8 Communication

8.1 Communication with UPS

REVO series Li-ion battery system communicates with UPS through the top integrated GBMS, which transfers all the working status of lithium battery (overcharge, discharge, over current, short circuit, over temperature, etc.) to UPS. According to the alarm or protection status of lithium battery system, UPS ensures the safety of the whole working system. Such communication is through CAN and RS485. RS485 protocol supports the MODBUS RTU MODBUS/TCP protocol. The communication signal of REVO lithium battery system is as follows:



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9 System installation

9.1 Unpacking and inspection

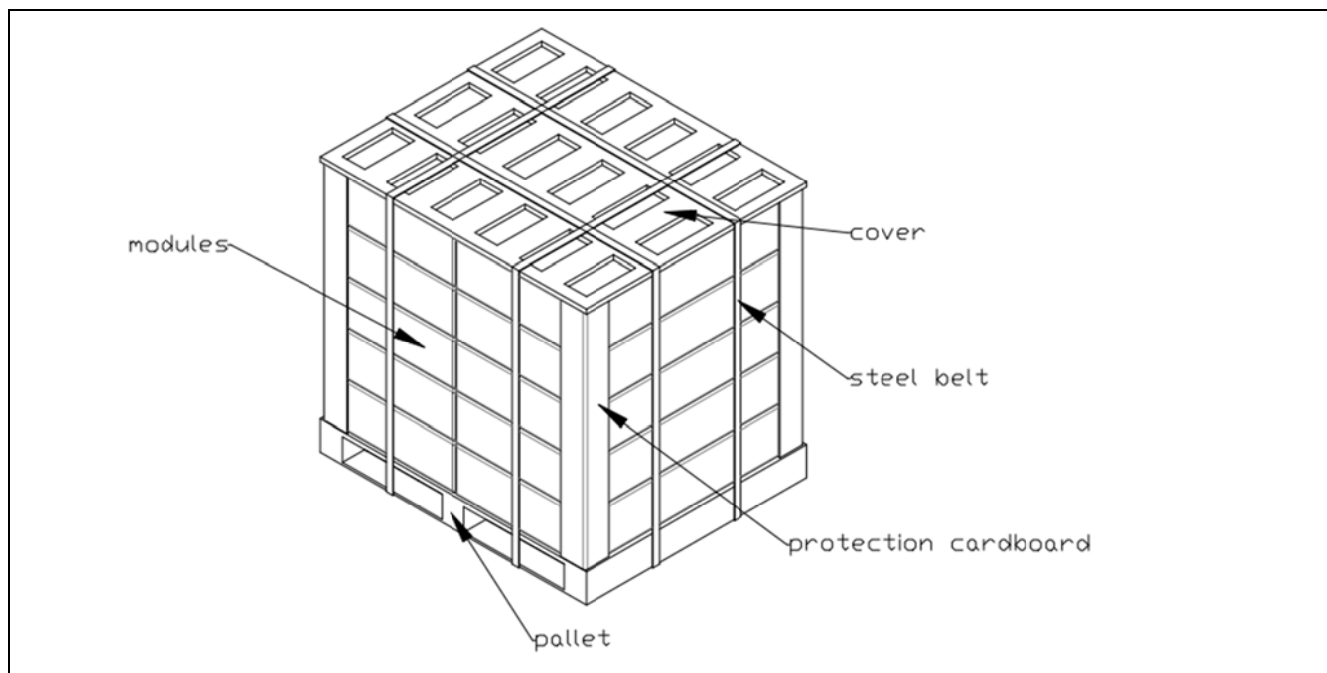
REVO lithium battery system has passed the strict and complete test and quality examination before putting into use. Please make a detailed inspection of the products before signing the receipt. If anything damaged, please contact Vision and provide details.

The inspection suggestions are as follows:

- ❖ Please check whether the package is intact.
- ❖ Please check the quantity and type of products on the packing list.
- ❖ Please check whether the equipment (including modules, CBMS, GBMS, etc.) inside the package is intact. The cabinet and battery modules are shipped separately.

Unpacking steps

Step 1 :Overview of the packing



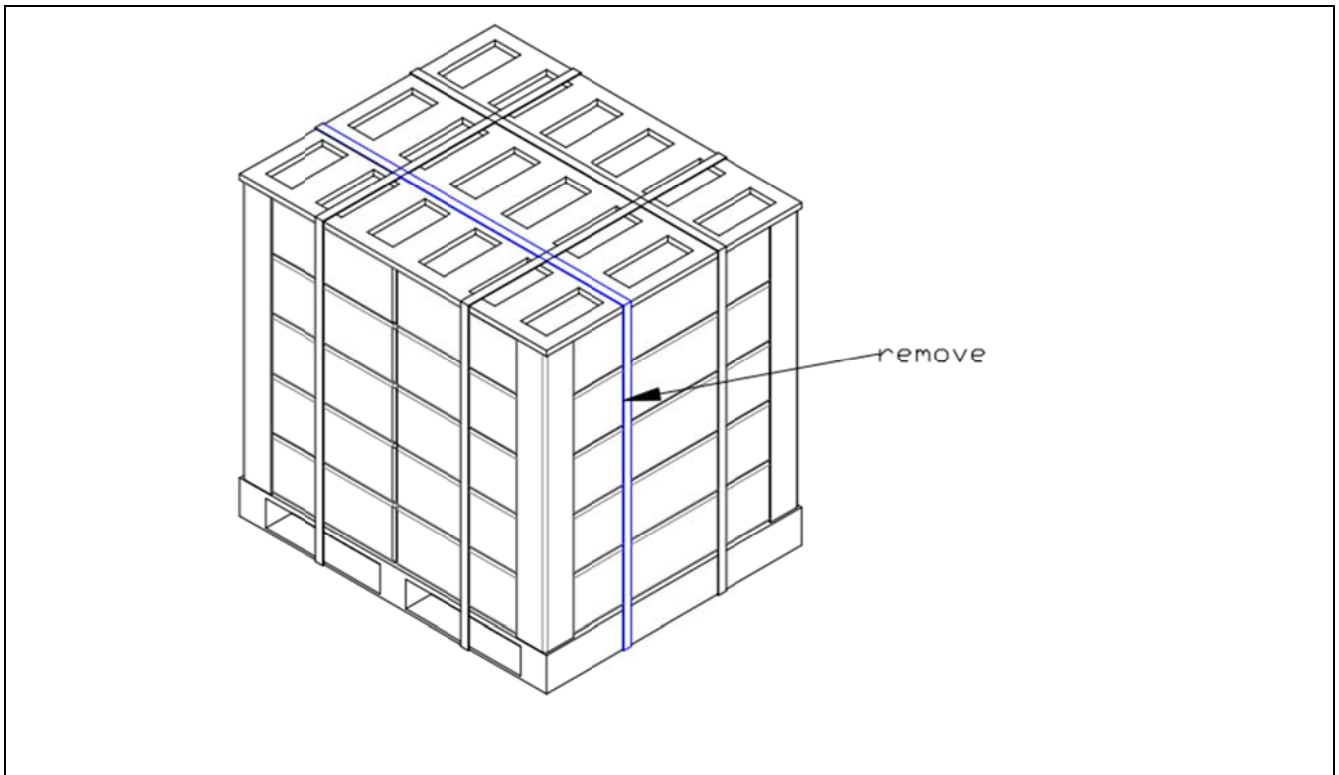
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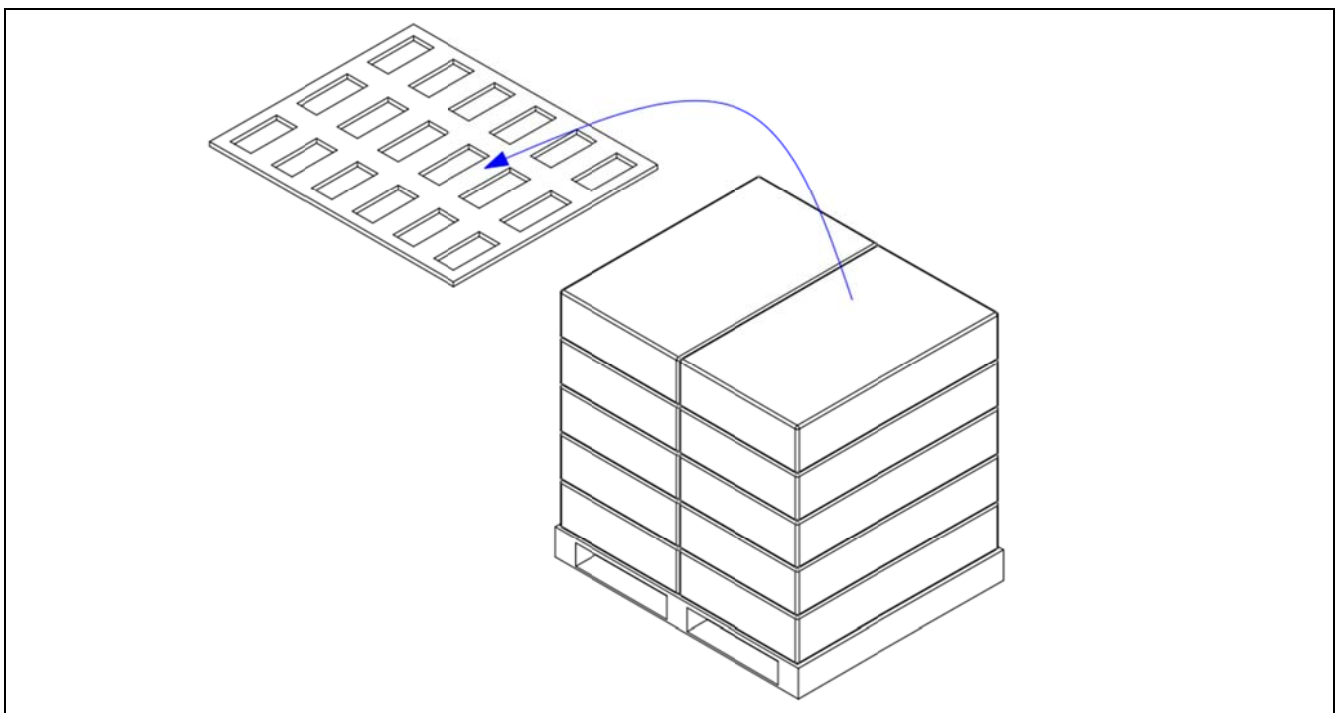
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Step 2 :Remove the protection cardboard and loosen the steel belt



Step 3 :Remove the cover of top



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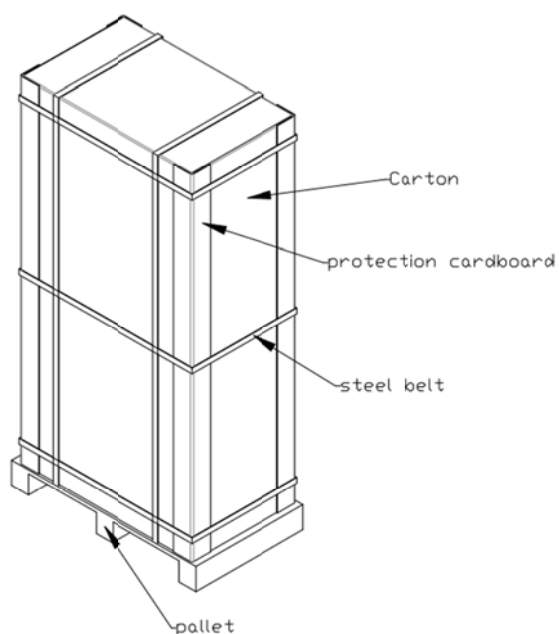
Address: Rooms 9-12, 7F, Block B, Building 7, Zone 2, Shenzhen Bay Technological and Ecological Park, Nanshan District, Shenzhen, China

Tel: 0755-66851118 Fax: 0755-66850678 Email: sales@vision-batt.com

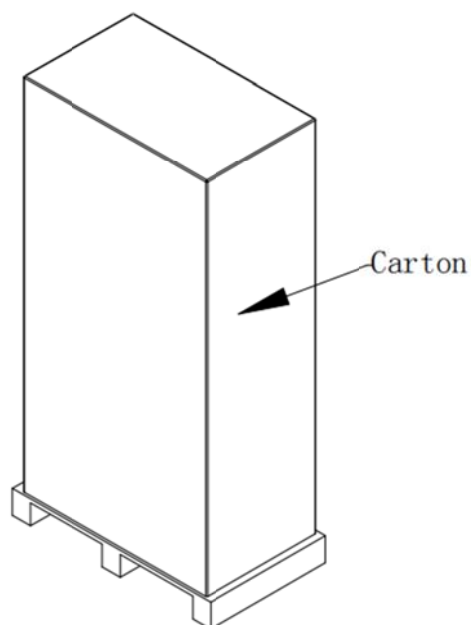
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Step 4 :Unpacking the cabinet

Overview



Remove the protection cardboard and loosen the steel belt



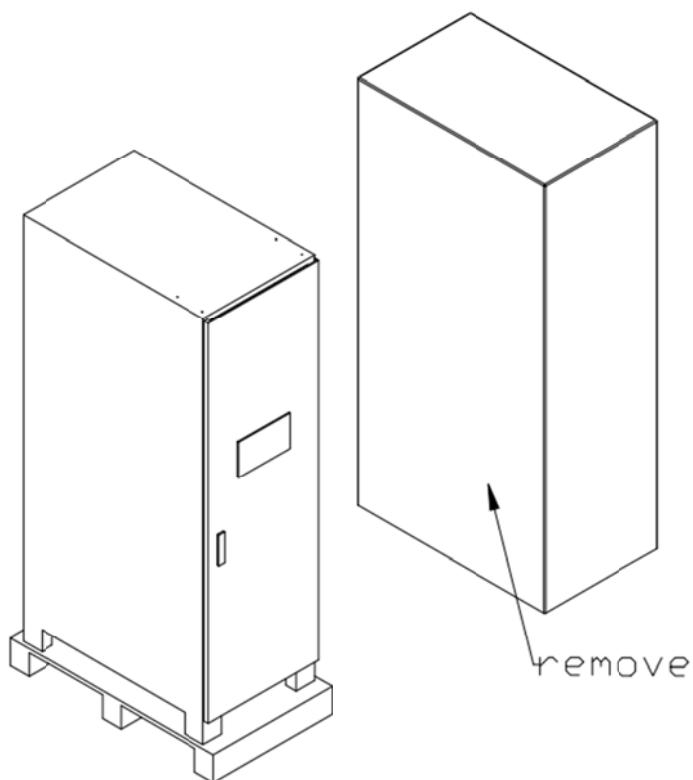
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Remove the carton



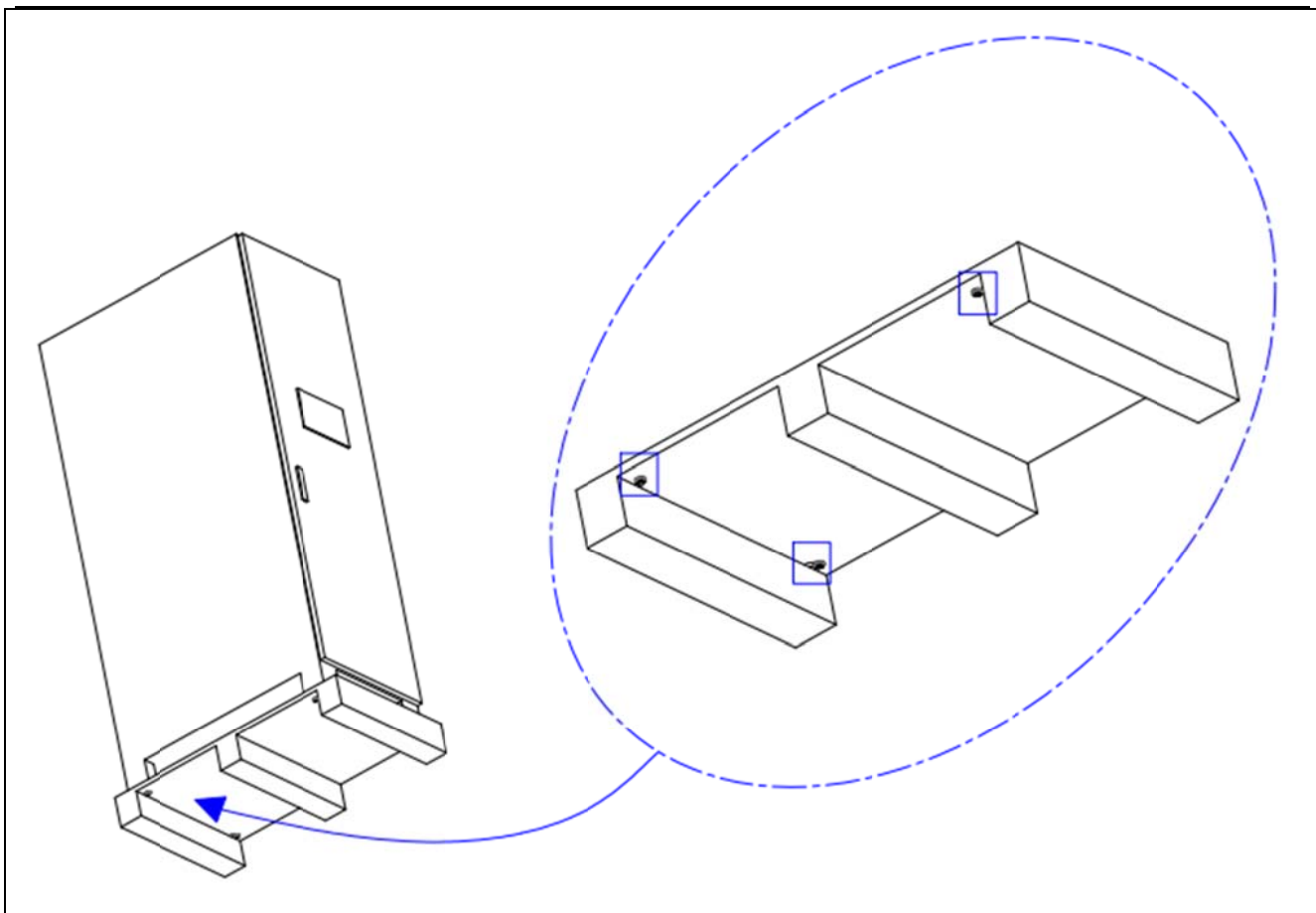
Remove the fixing bolts from the bottom of the cabinet, please reserve the bolts, can be used for cabinet fixed on steel channel

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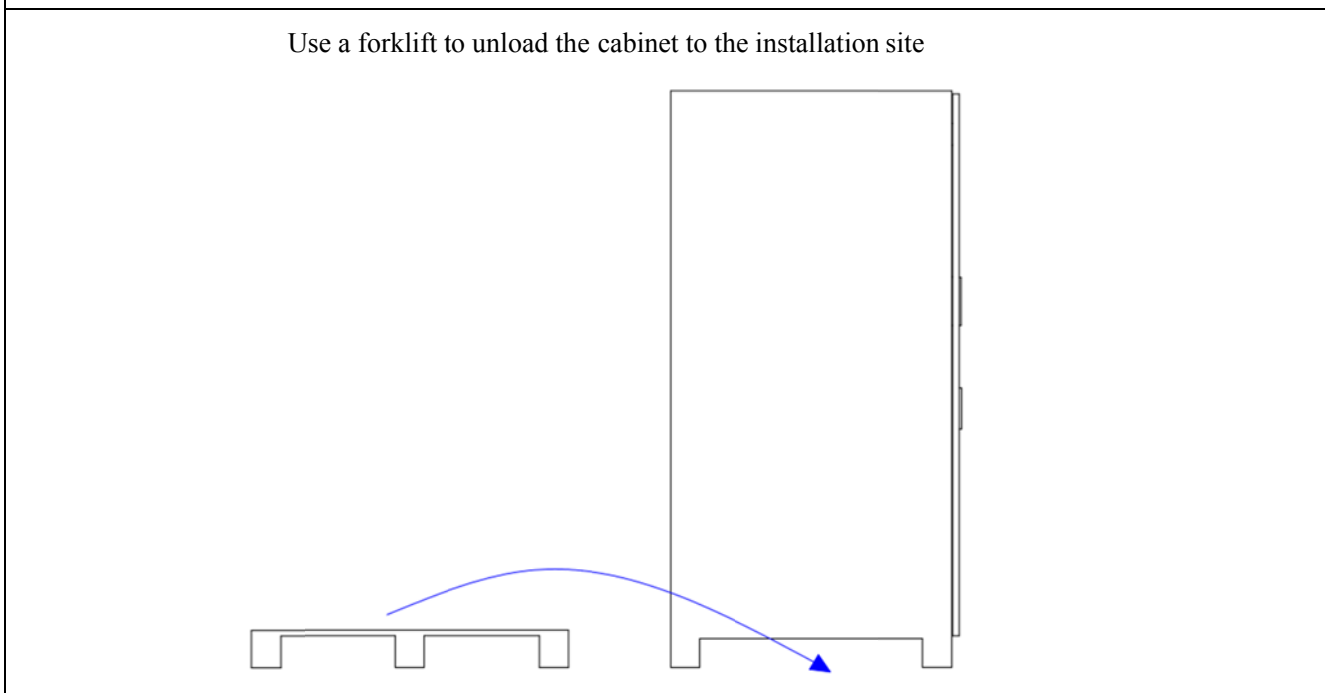
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Use a forklift to unload the cabinet to the installation site



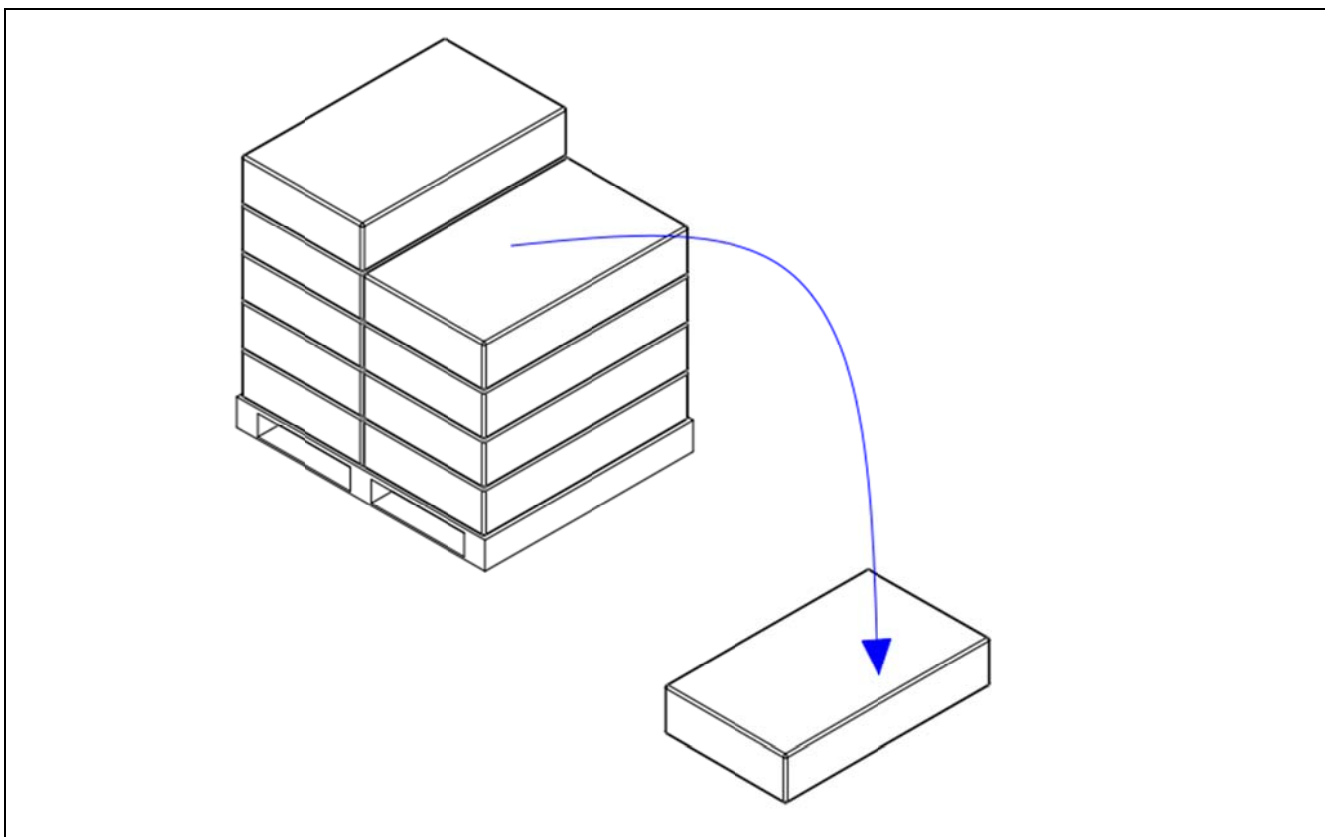
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Step 5 :Move the module to the designated installation location



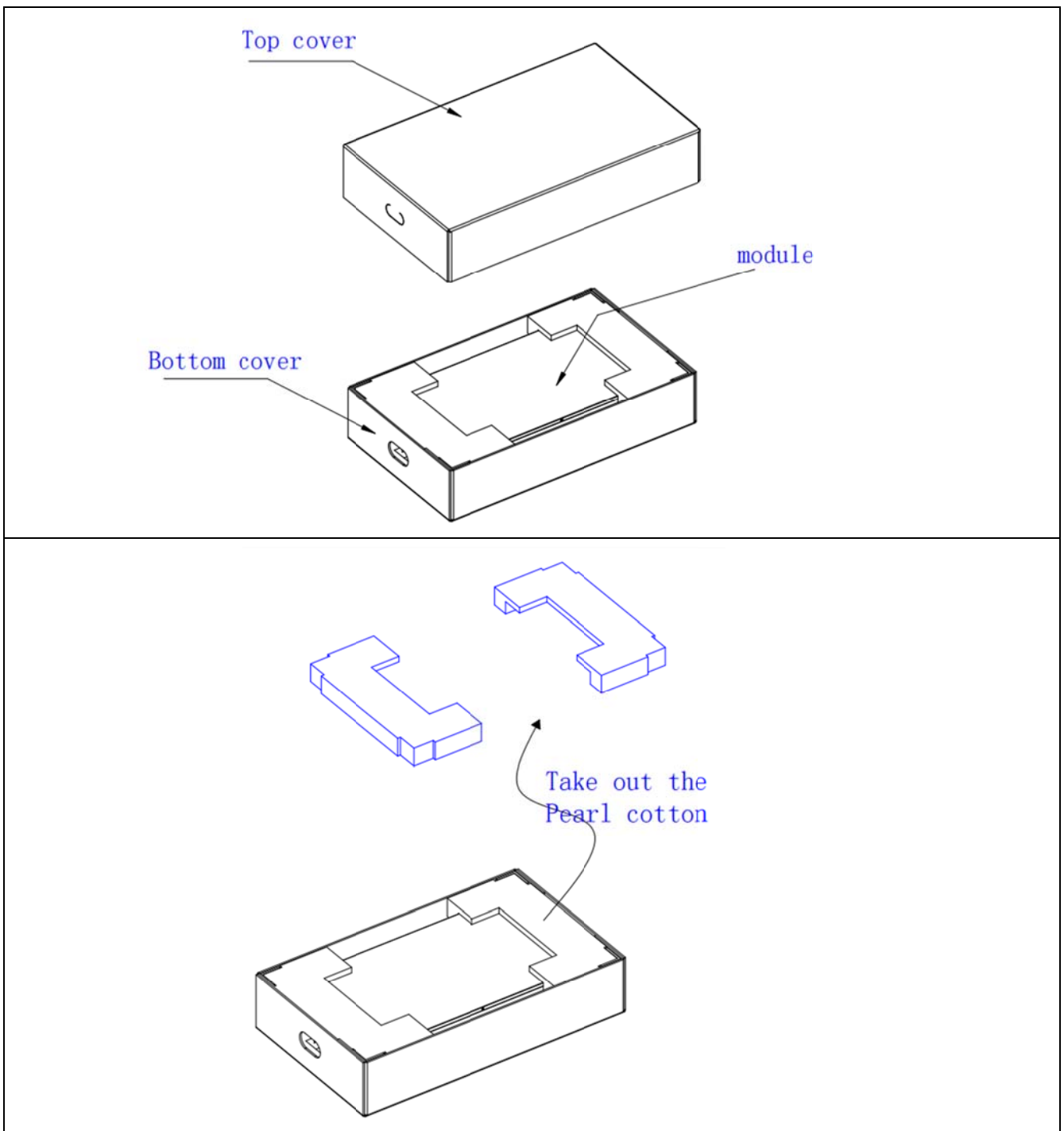
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Step 6 :Disassemble the module packaging

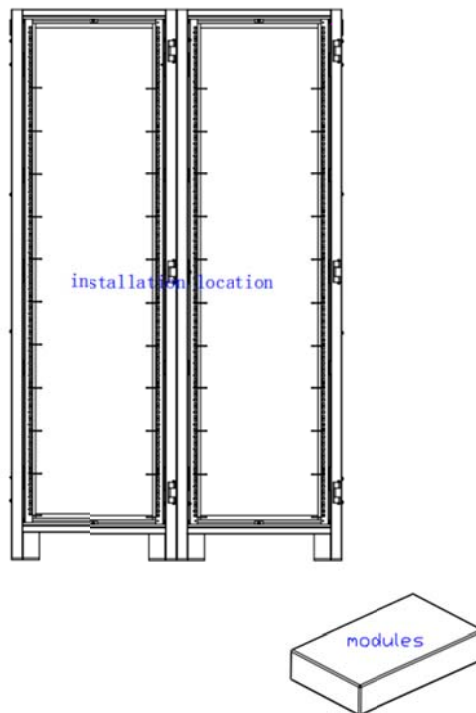
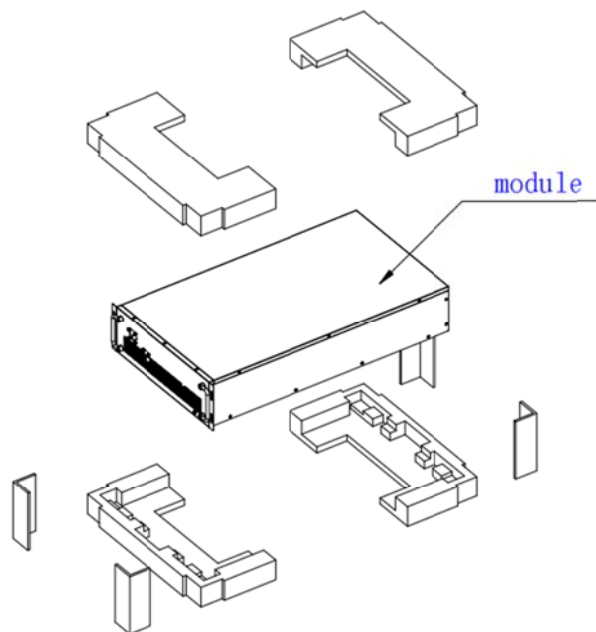


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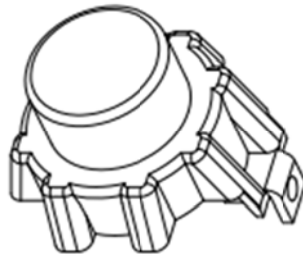


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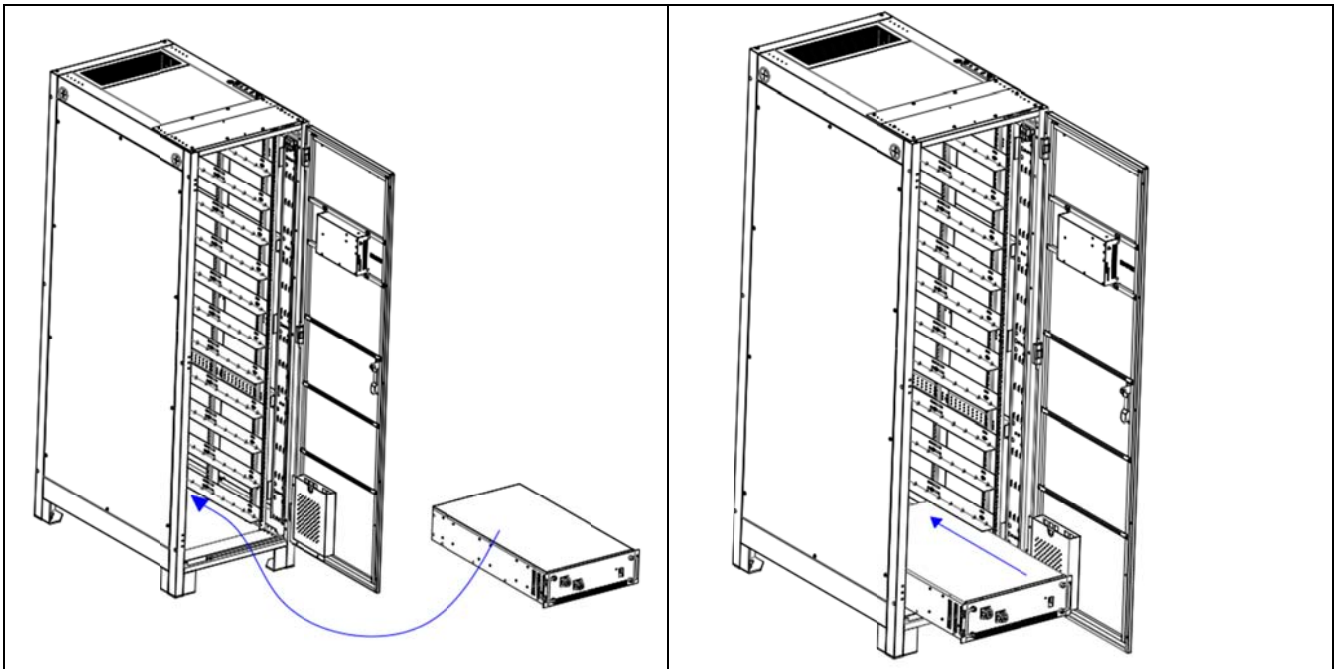
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This insulating caps should keep at the modules terminal until connected with cables . Please keep the insulating caps of the module properly for later use when the module needs maintenance.

Step 7 :Use a lift tools or at least two people to move the module to the cabinet for installation



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9.2 Loading list

Table 9.2.1 Loading list

Item	Name	Description		Ref.
1	LIBVIS8×50250IEC	Vision 2000mm LIB rack with 8 x 50Ah battery modules and 250A CBMS IEC	LIBVISRAC50Ah2000 qty: 1 LIBVISMOD50 qty: 8 LIBVISSG250IEC qty : 1	section 11.6
2	LIBVIS10×50250IEC	10 * 50Ah modules cabinet	LIBVISRAC50Ah2000 qty: 1 LIBVISMOD50 qty: 10 LIBVISSG250IEC qty : 1	
3	LIBVIS12×50250IEC	12* 50Ah modules cabinet	LIBVISRAC50Ah2000 qty: 1 LIBVISMOD50 qty: 12 LIBVISSG250IEC qty : 1	
4	LIBVIS8×100630IEC	8* 100Ah modules cabinet	LIBVISRAC100Ah2000 qty: 1 LIBVISMOD100 qty: 8 LIBVISSG630IEC qty : 1	
5	LIBVIS10×100630IEC	10* 100Ah modules cabinet	LIBVISRAC100Ah2000 qty: 1 LIBVISMOD100 qty: 10 LIBVISSG630IEC qty : 1	
6	LIBVIS12×100630IEC	12 * 100Ah modules cabinet	LIBVISRAC100Ah2000 qty: 1 LIBVISMOD100 qty: 12 LIBVISSG630IEC qty : 1	

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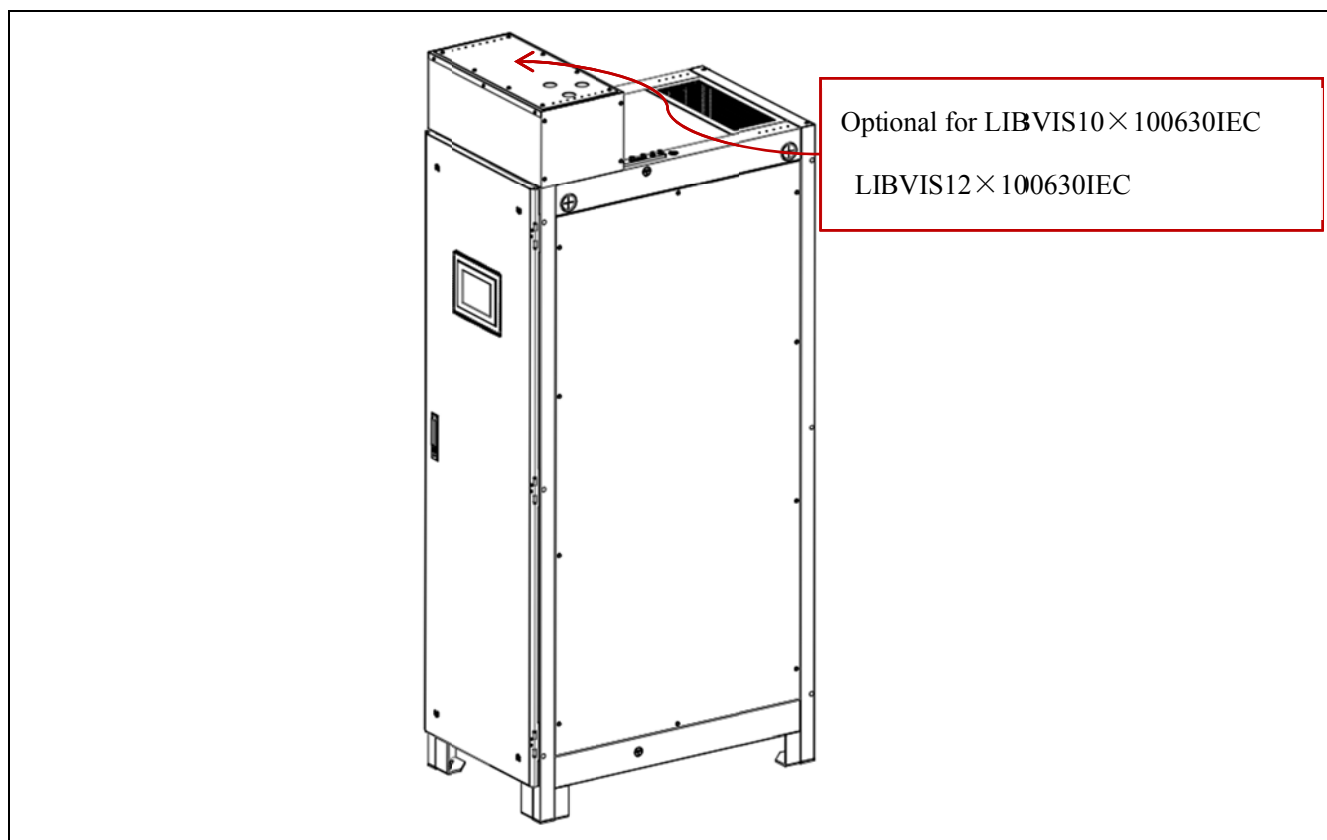
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9.3 installation Preparation

9.3.1 Installation place

The installation location of lithium battery plays a key role in its safety, service lifetime and performance. It is recommended to install the lithium battery in an air-conditioned room. The system should be installed in a place allowed for convenient wiring, easy maintenance and easy operation.



The gland box LIBVISTOPHAT is an option for two types of cabinets (LIBVIS10×100630IEC、LIBVIS12×100630IEC)

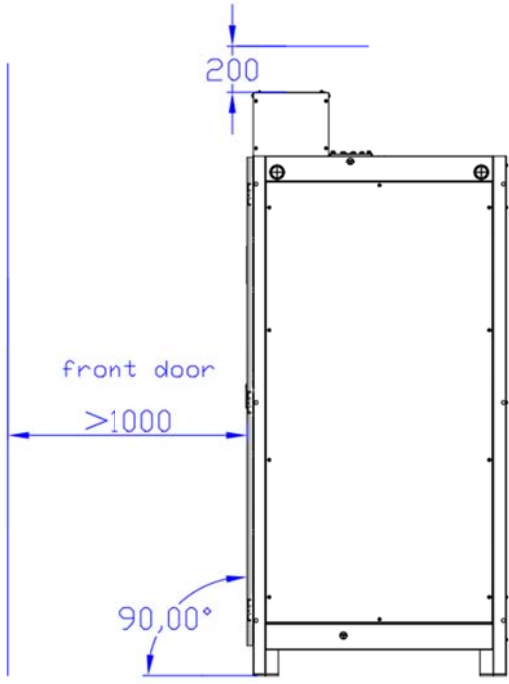
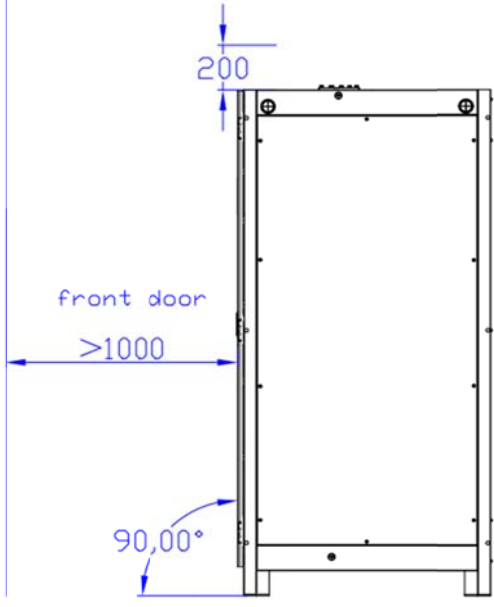
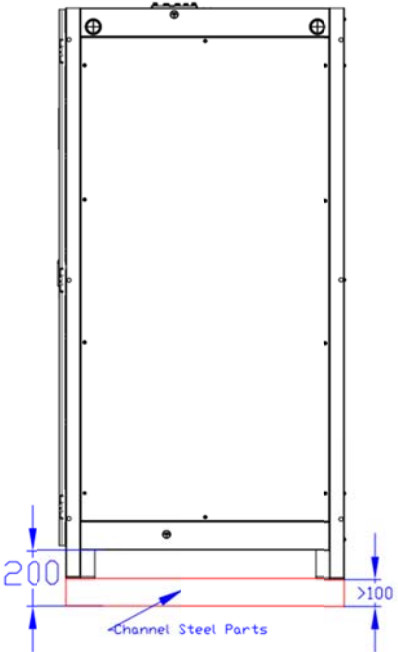
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cabinet clearance

Top routing	Top routing without gland
	
Bottom routing	
	

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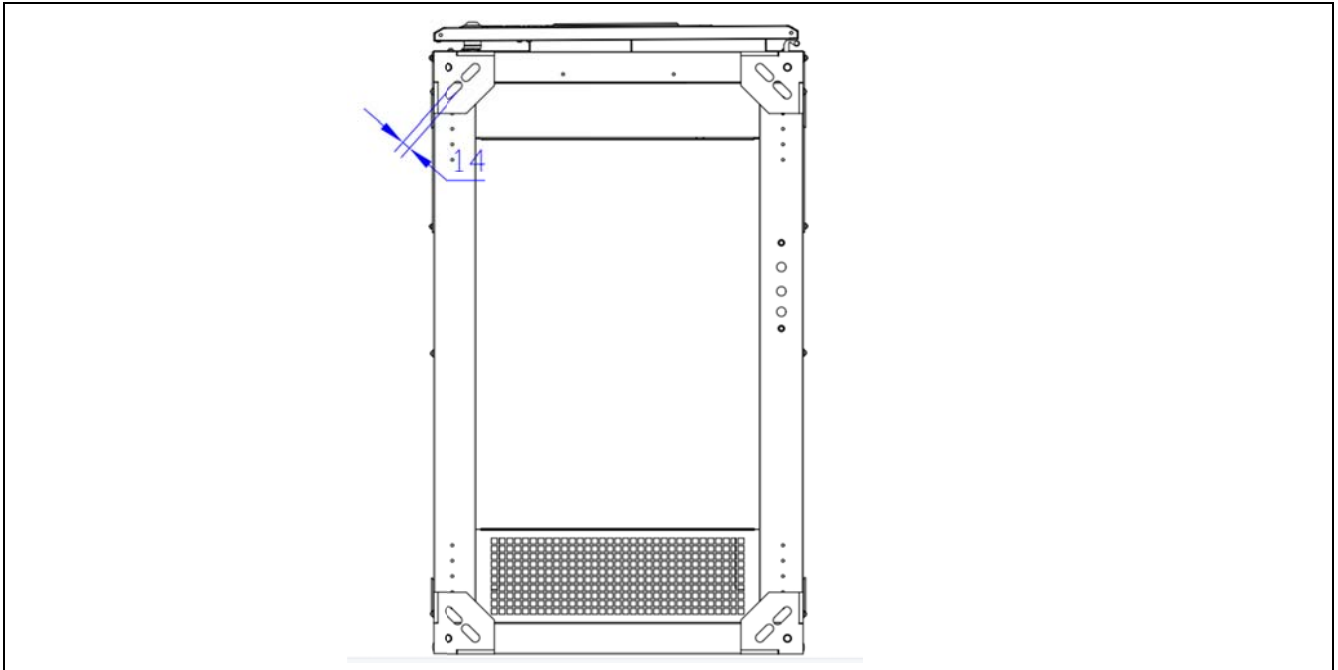
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Note: Clearance dimensions are published for airflow and service access only. Consult with the local safety codes and standards for additional requirements in your local area.

Fixed foot installation if need fix on steel channel, please use the bolt remove from pallet



cabinet Fixed together

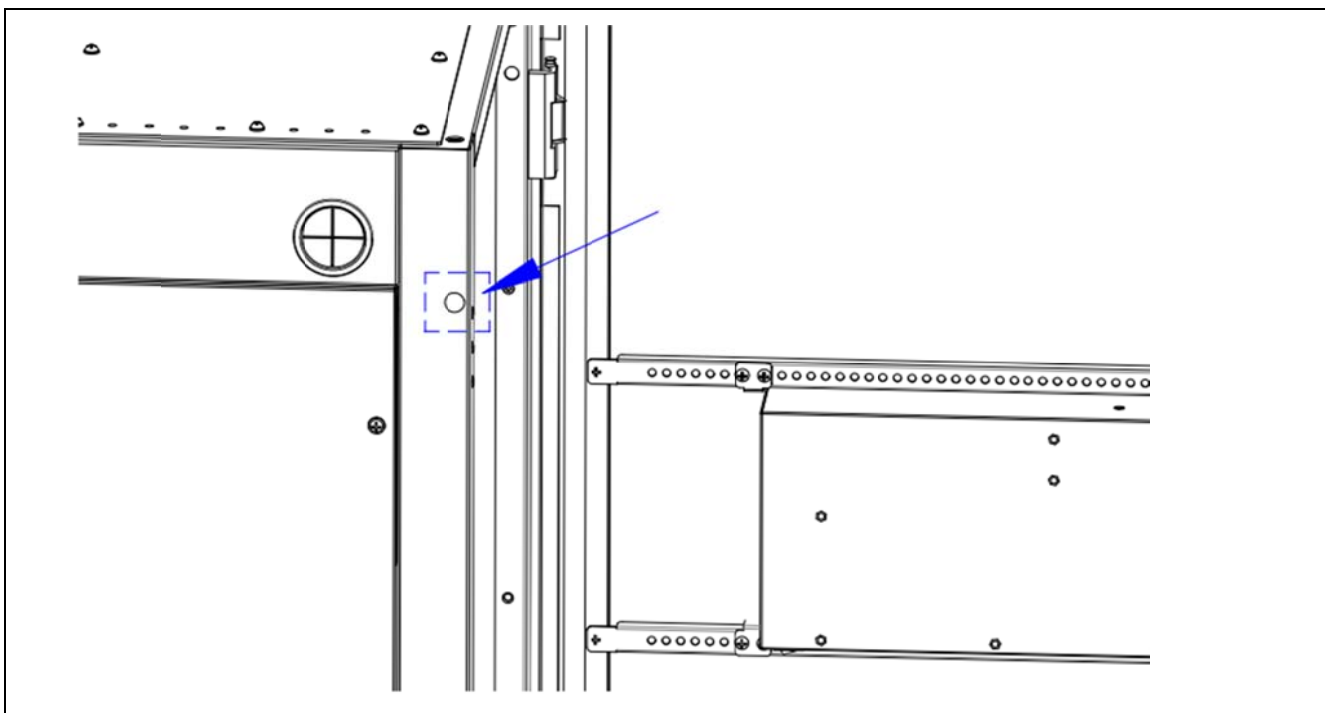
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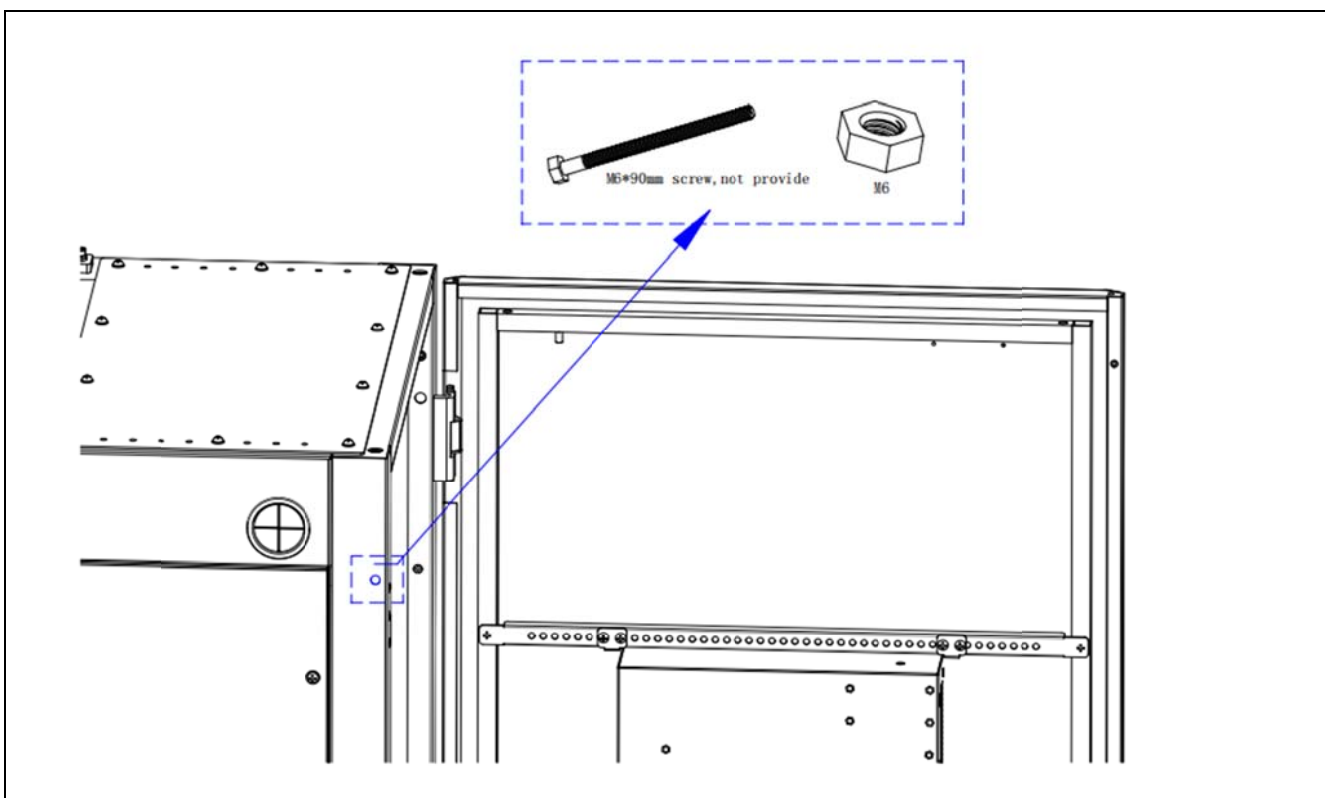
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Step 1: Remove the cap of the fixing hole



Step 2: Screw and nut specifications



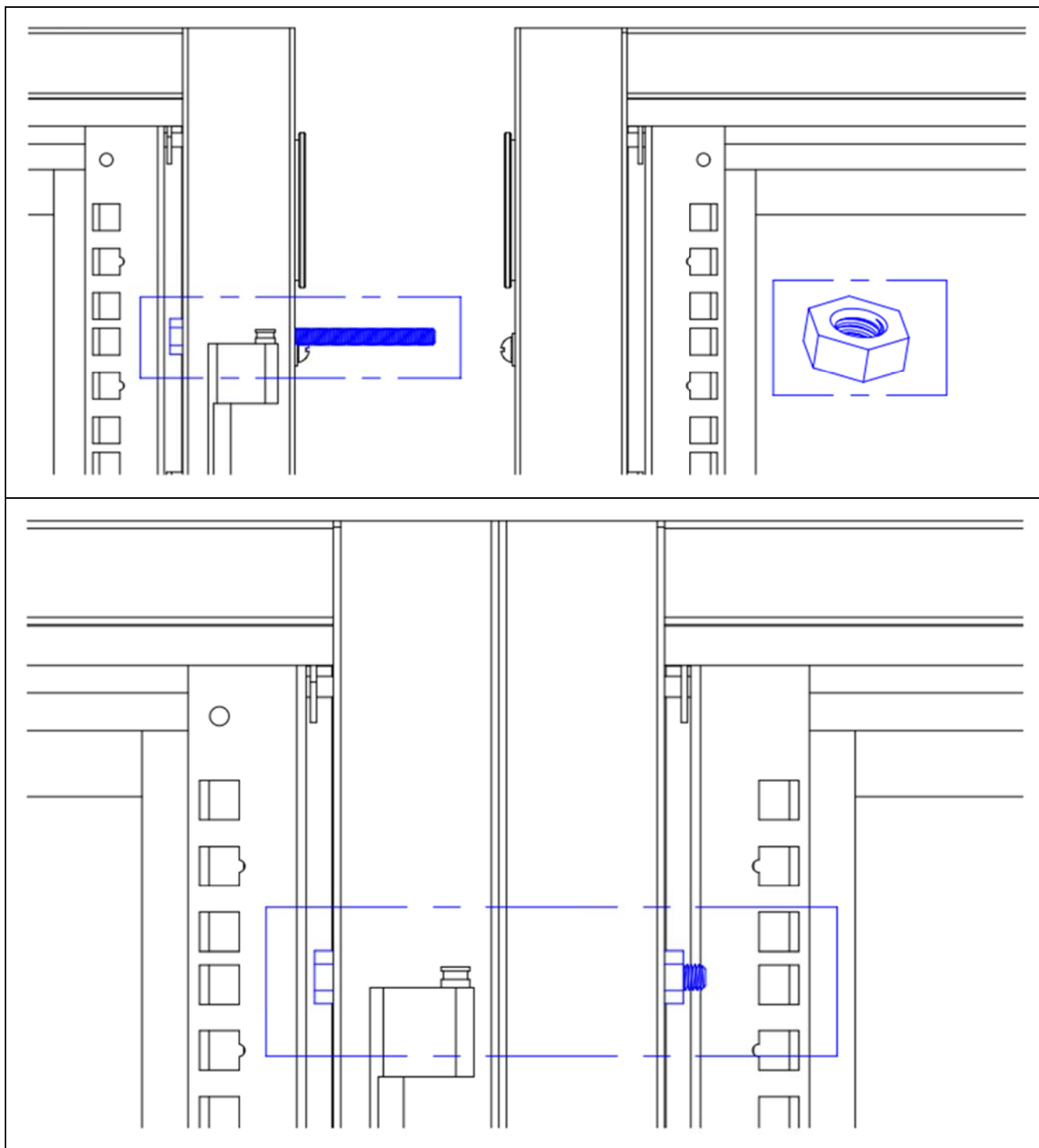
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Step 3: Use recommended screws and nuts to fix through the mounting holes



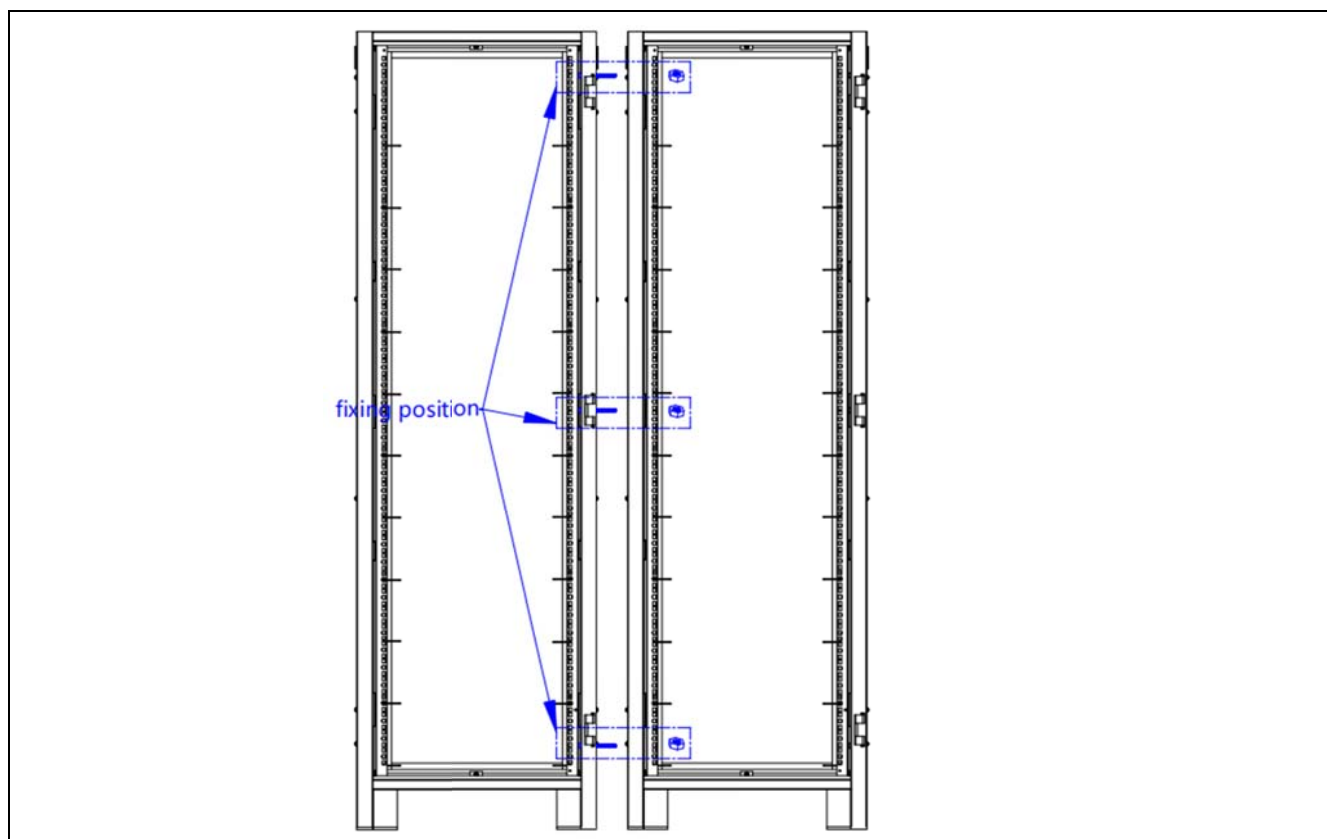
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Step 4: three installation positions that need to be fixed



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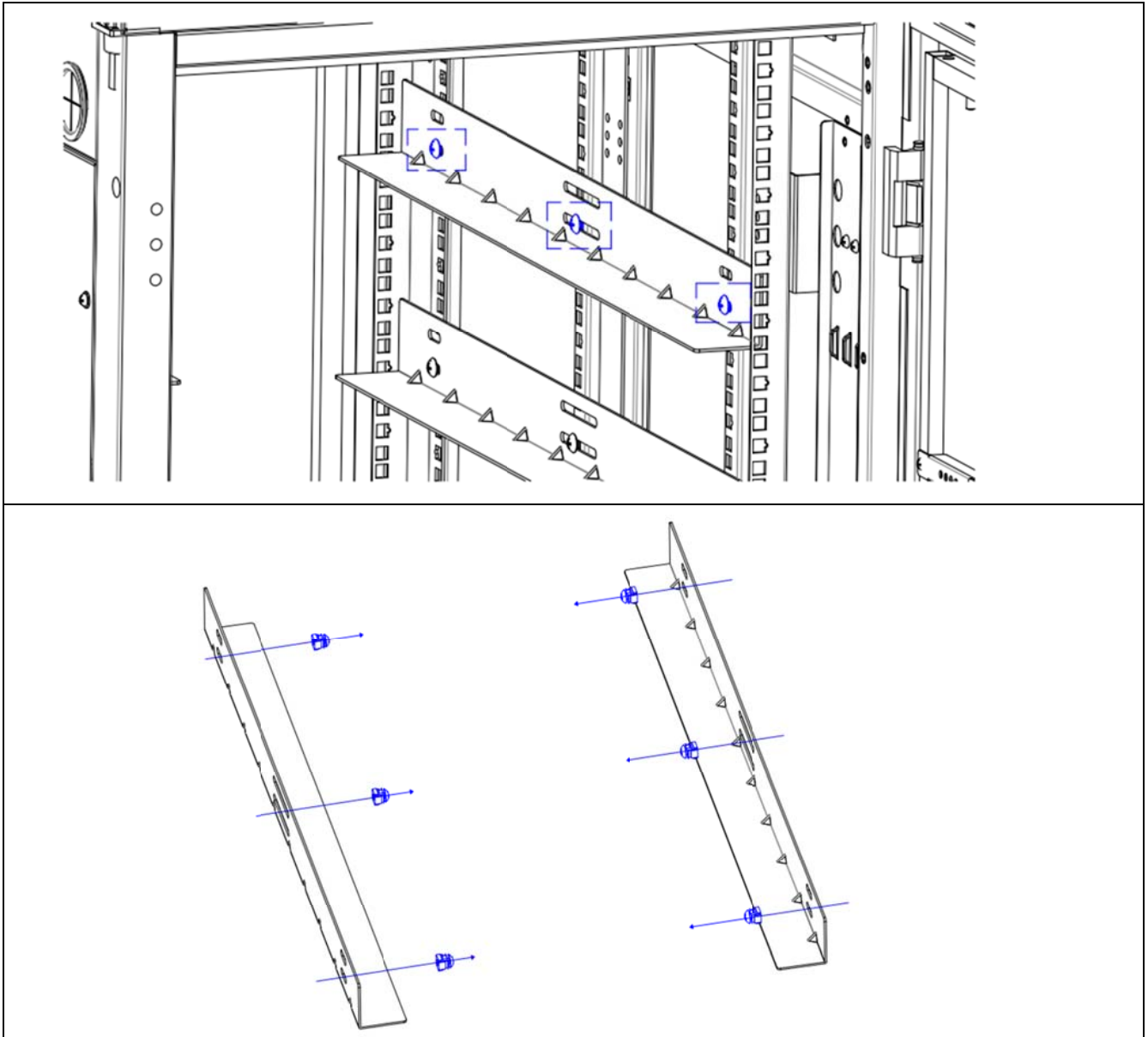
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9.3.2 L-shaped rails adaption

As the standard cabinet with fixed number of rail , need adapt the rails from the top for CBMS installation to compatible different modules.

remove the additional L-shaped shelf

Step1 Use a Phillips screwdriver to loosen the screws and remove the L-shaped shelf



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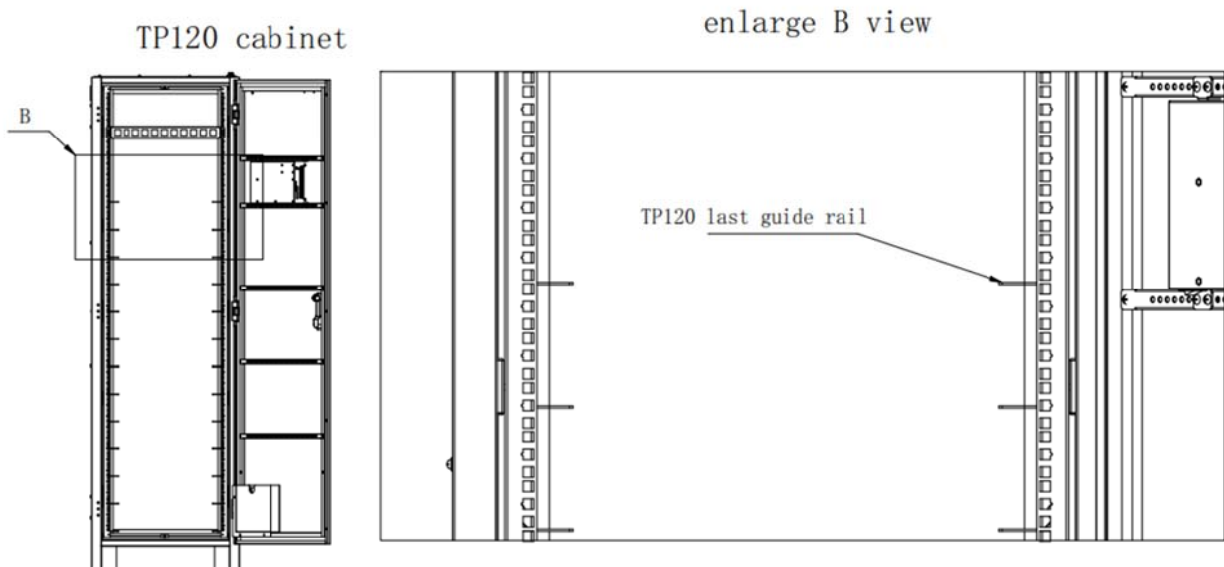
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Follow the below table the remove the additional rails

Cabinet SKu	Default Rail qty	8 modules Rail Qty	10 modules Rail Qty	12 modules Rail qty
LIBVISRAC50AH2000	13	9	11	13
LIBVISRAC100AH2000	11	9	11	/
LIBVISRAC100AH2300	13	9	11	13

9.3.3 Adaption of floating nuts

TP120:



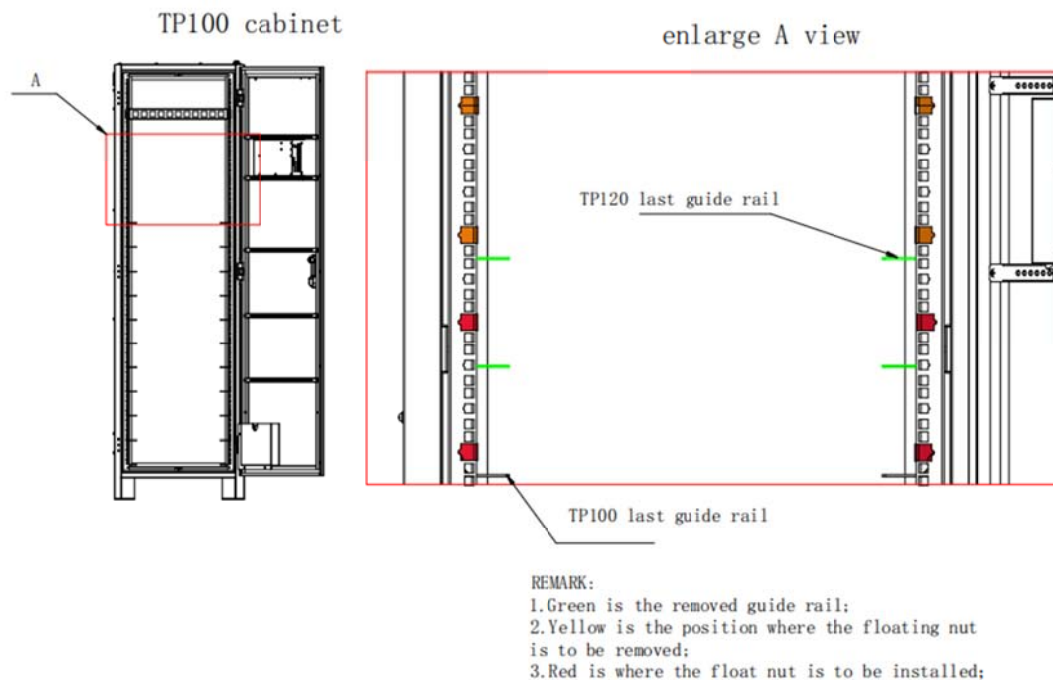
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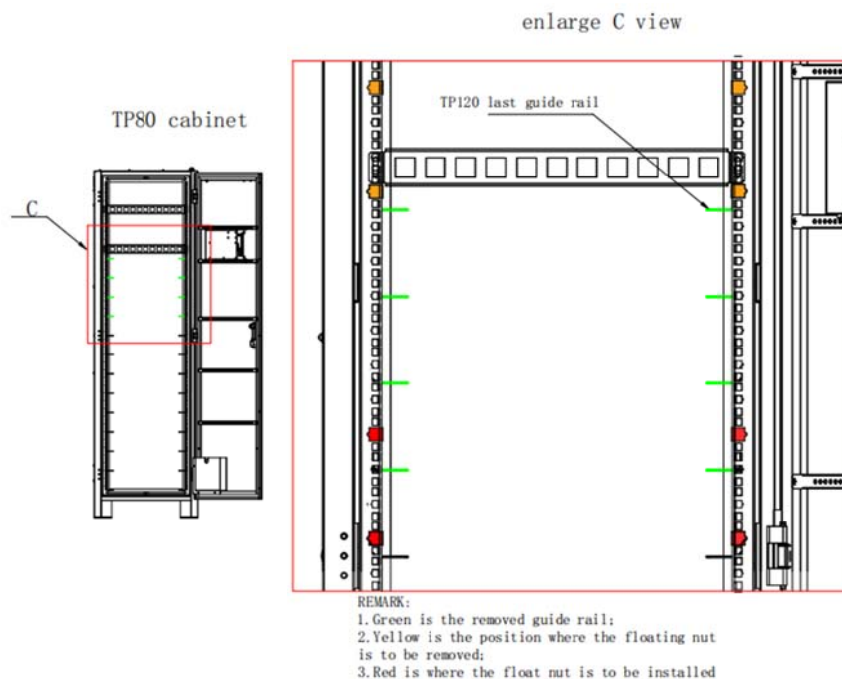
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TP100:Tune the nuts for 10 modules



TP80:Tune the nuts for 8 modules



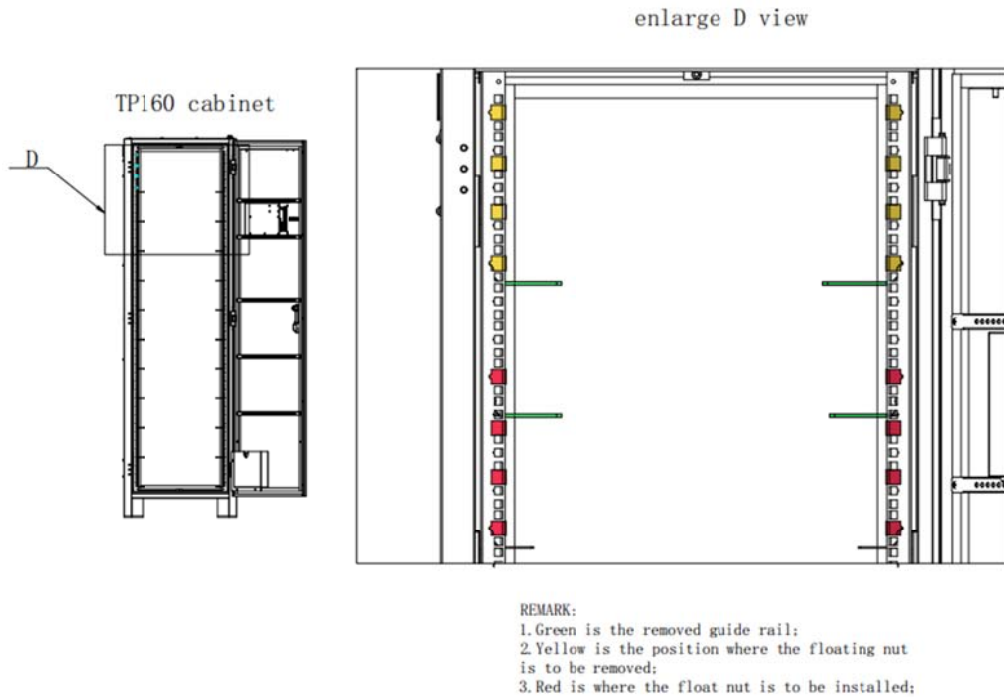
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TP160



10 Cabinet Installation

10.1 Overview of connection

The system is electrically connected to the UPS, including the lithium system to the bus cabinet. Take TP200 as an example, the connection of communication cables is shown below.

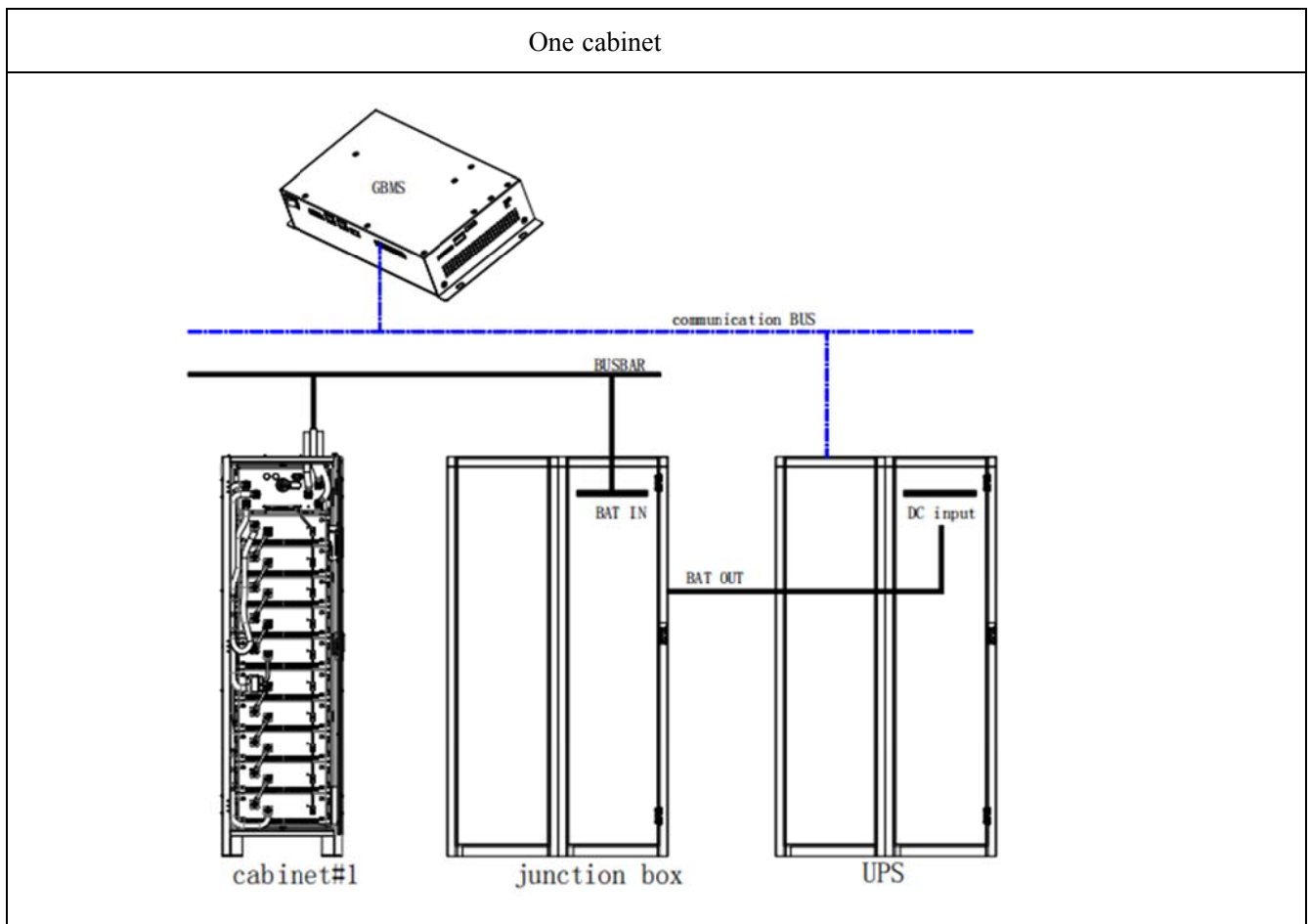
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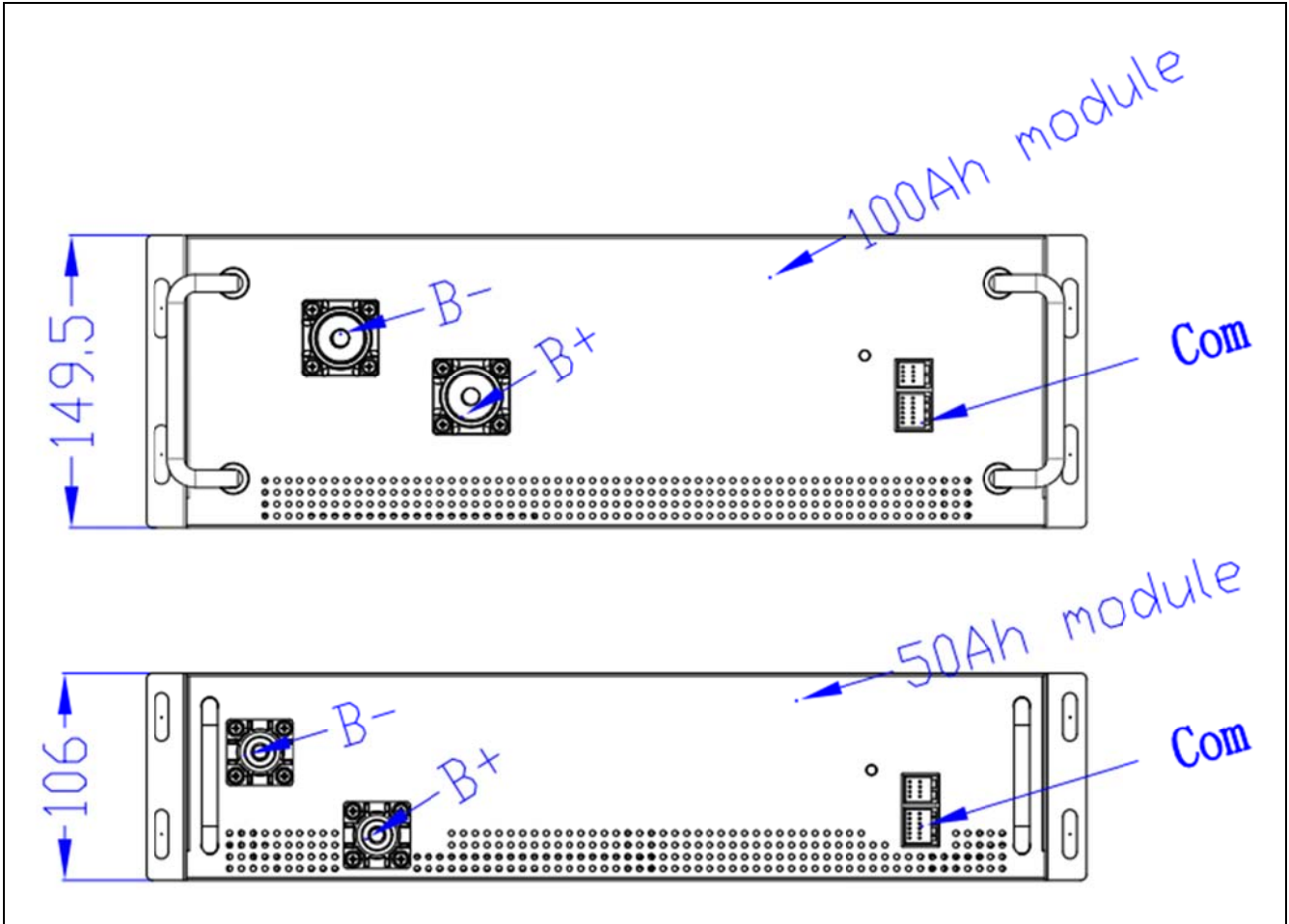
Figure 10.1.1 Overview of connection



Overview of cable connection includes power cable, communication cable, BMS ID dial code, etc.

The battery module terminal is as shown in the figure below:

Figure 10.1.2 Overview of battery module and CBMS



10.2 Ground connection

In a lithium-ion power system, all non-current-carrying metal components and equipment enclosures should be connected to the ground nearby. A main grounding terminal should be configured in each device with protective connection. In the case of multi-system parallel operation, the main grounding terminal of each device should be connected to the conductor. The grounding conductor should be made of copper, and the external grounding cable should be installed by following the recommendation. Copper terminal must be installed, and must be firmly pressed.

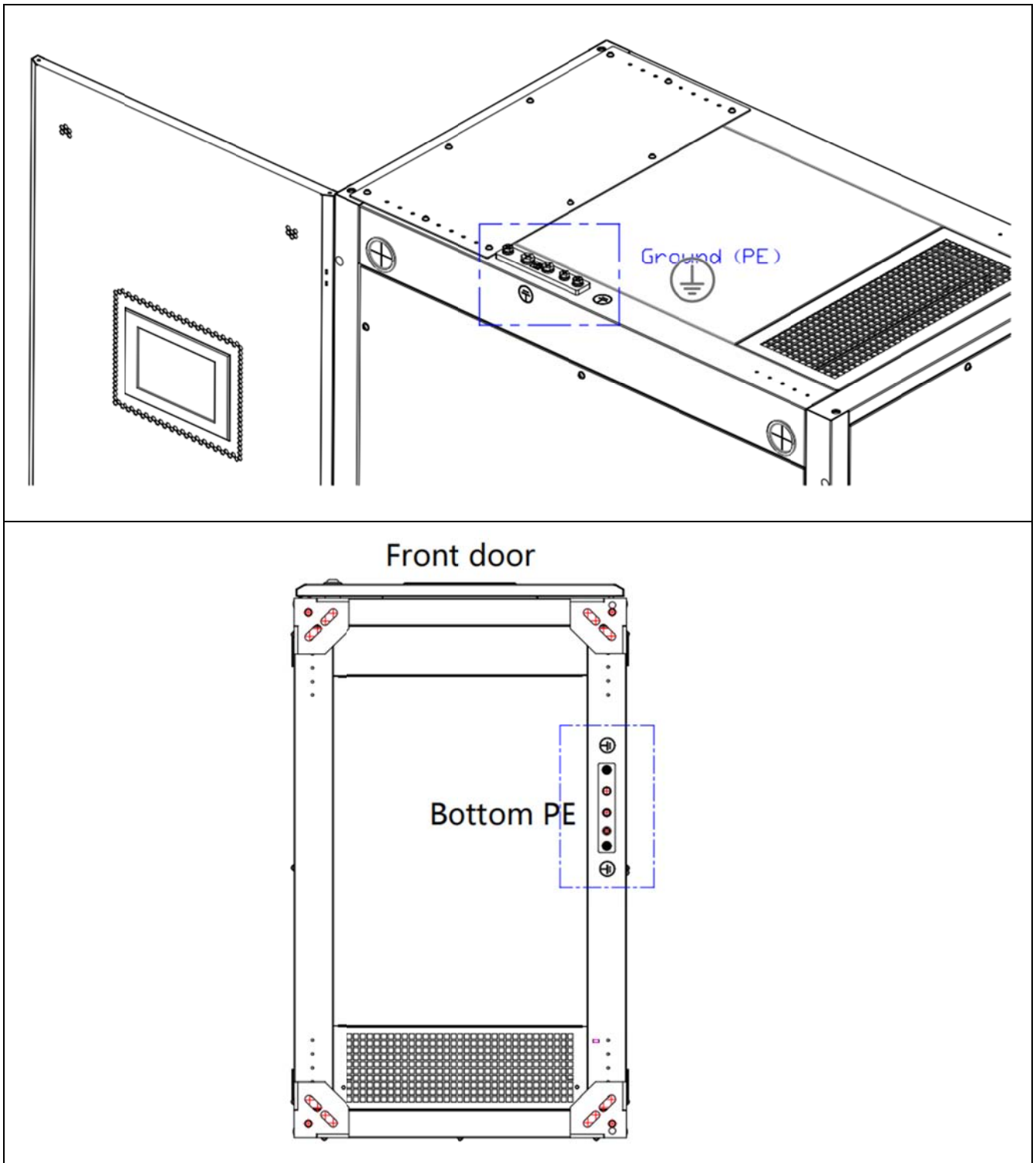
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Figure 10.2.1 Ground(PE) connect



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10.3 Module installation

Install the master control CBMS and the battery modules from bottom to top on the specified cabinet, and fix modules on the cabinet with cross head bolts provided, as is shown below:



Pay attention to the weight of the module during transportation.

Figure 10.3.1 Overview of Installation

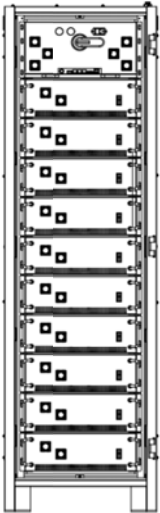
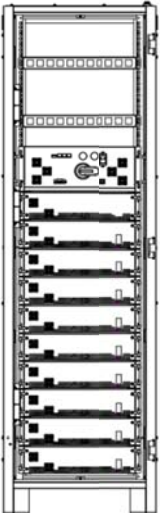
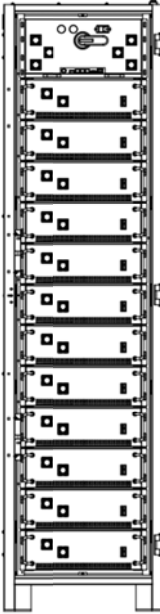
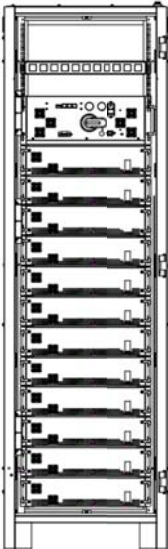
	100Ah	50Ah
8modules		

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10modules		
12modules		

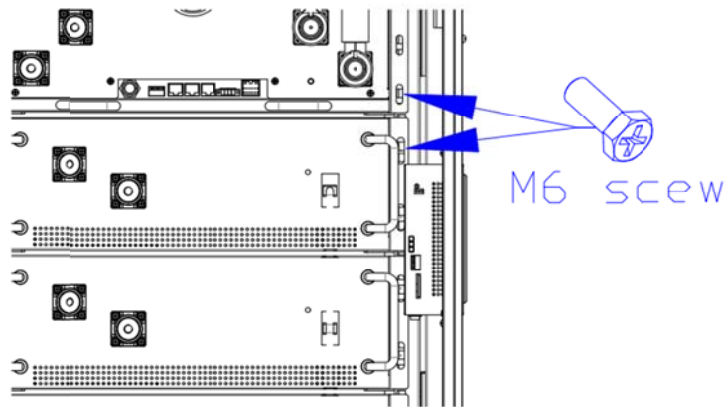
❖ Step 2. Fix the modules with screws provided(4pcs M6 for each module; torque 7Nm).

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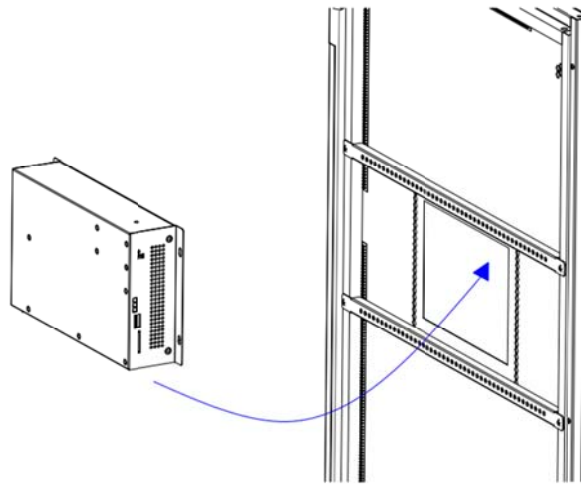
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Note that after the installation of module, the insulation cap of the module should be kept, and it may be used in the future.

10.4 GBMS installation

Place GBMS on the installation location



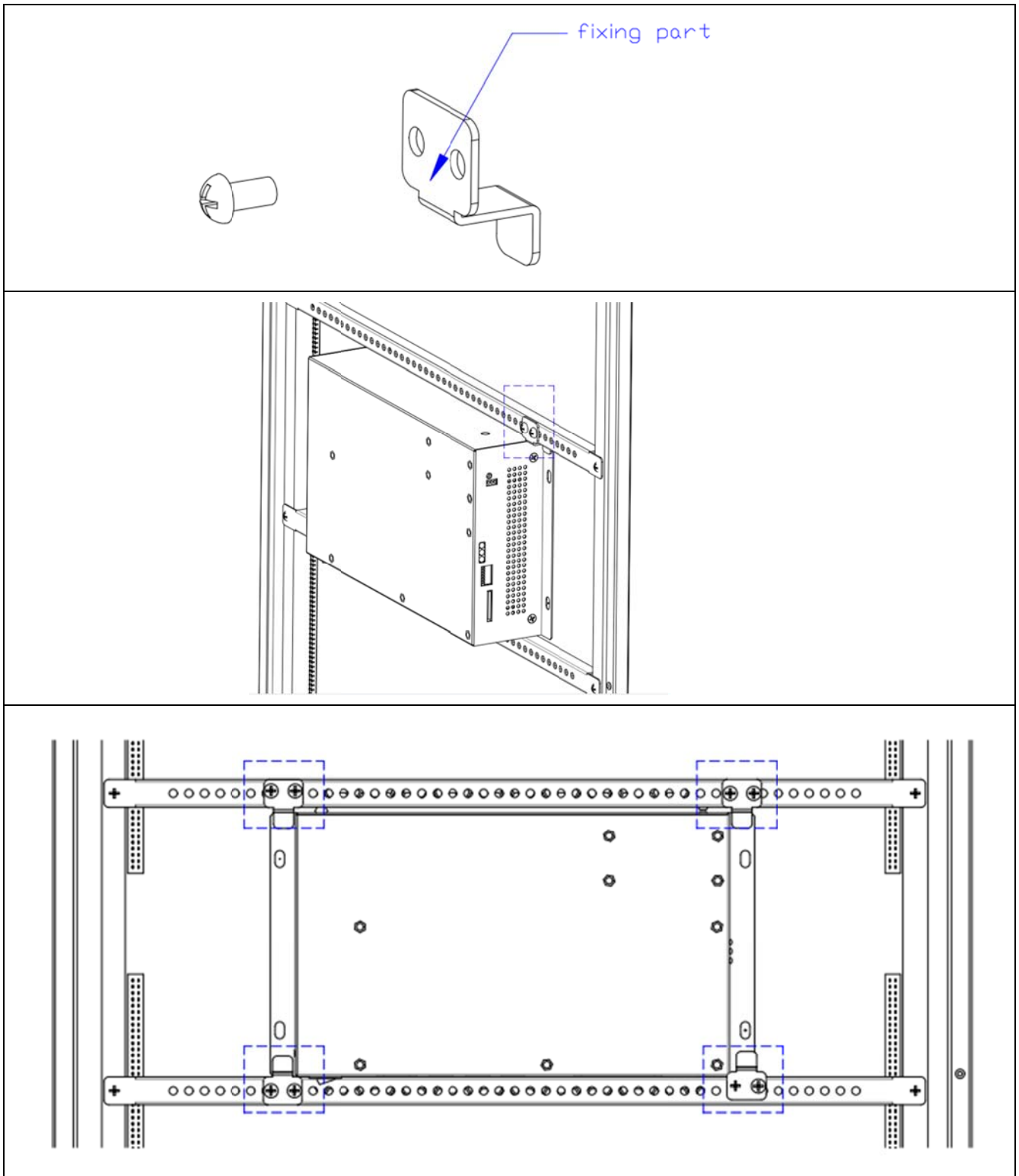
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Install the fixing parts of GBMS with screws



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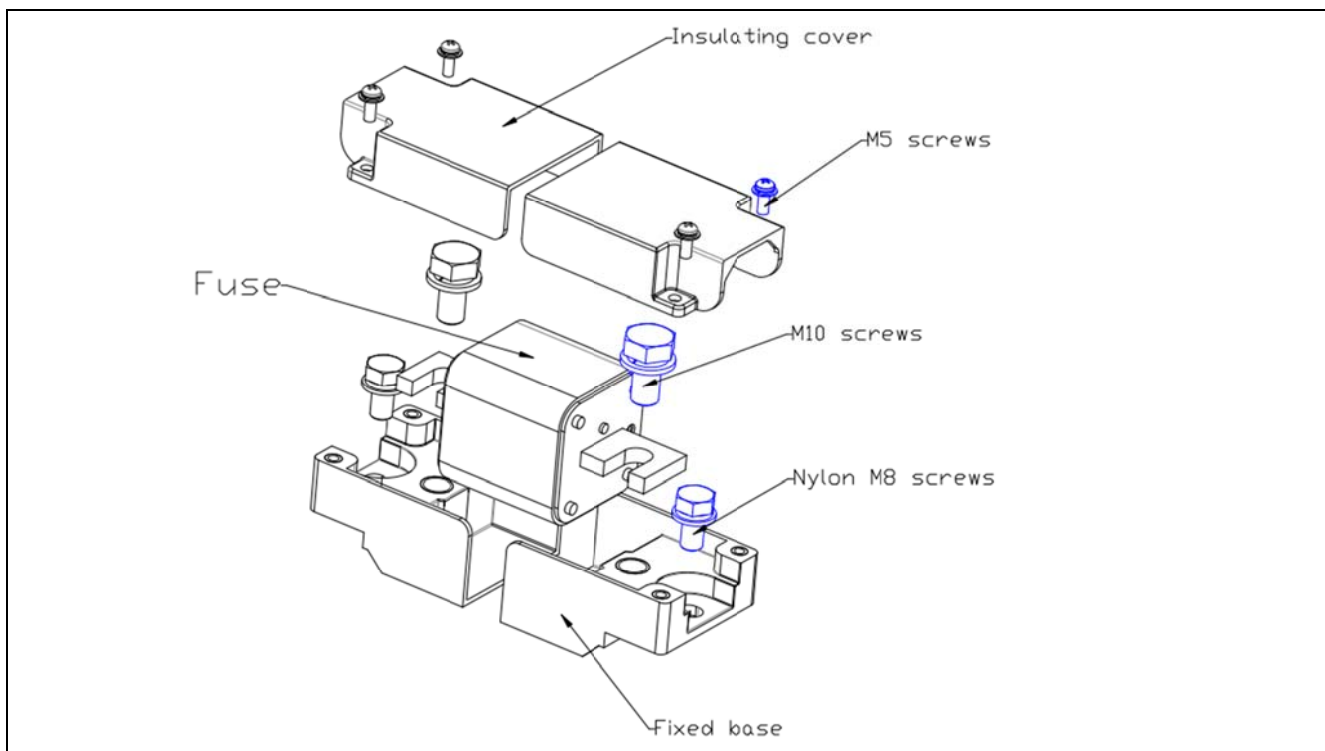
Address: Rooms 9-12, 7F, Block B, Building 7, Zone 2, Shenzhen Bay Technological and Ecological Park, Nanshan District, Shenzhen, China

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10.5 Fuse installation

❖ 1、Preview of fuse installation box



1.50Ah cabinet equipped with 315A fuse

2.100Ah cabinet equipped with 630A fuse

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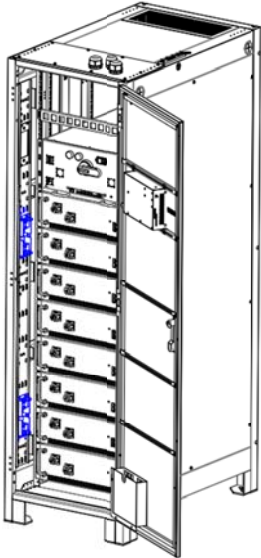
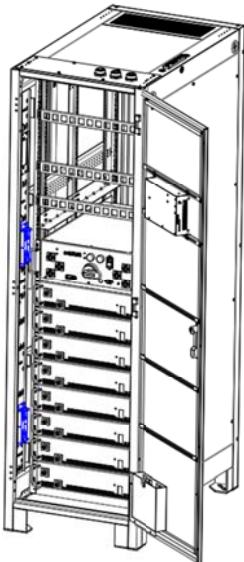
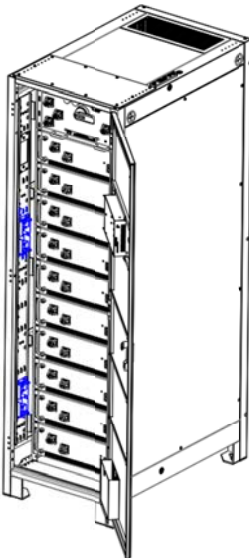
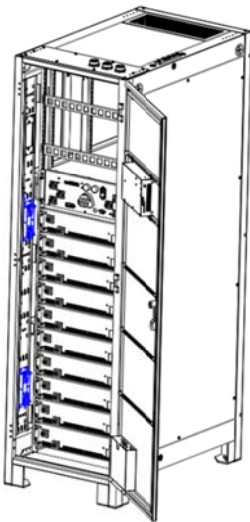
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❖ 2、Installation location

Installation location for different modules numbers

	100Ah	50Ah
8modules		
10modules		

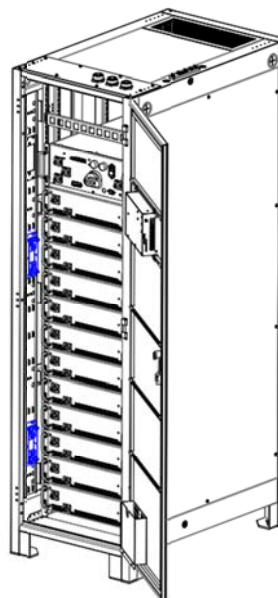
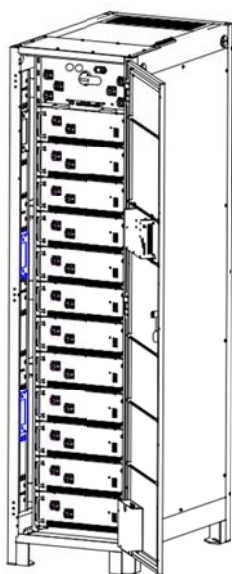
SHENZHEN CENTER POWER TECH CO., LTD

Address: Rooms 9-12, 7F, Block B, Building 7, Zone 2, Shenzhen Bay Technological and Ecological Park, Nanshan District, Shenzhen, China

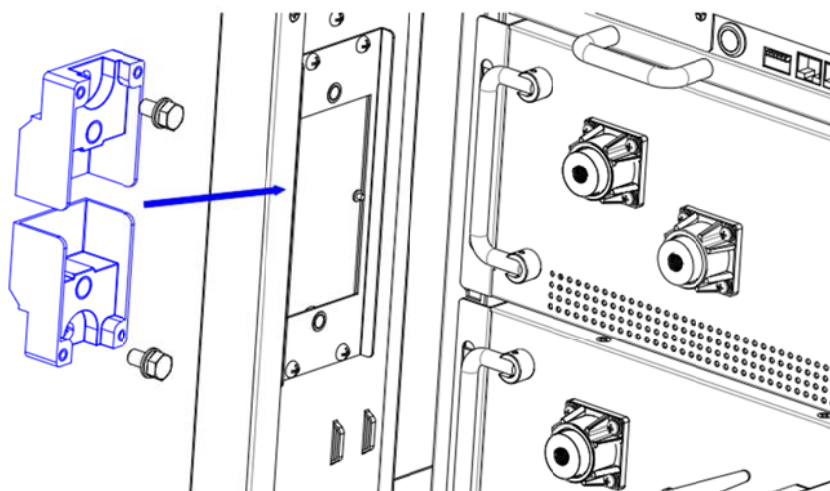
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12modules



❖ 3、Fix the base with M8

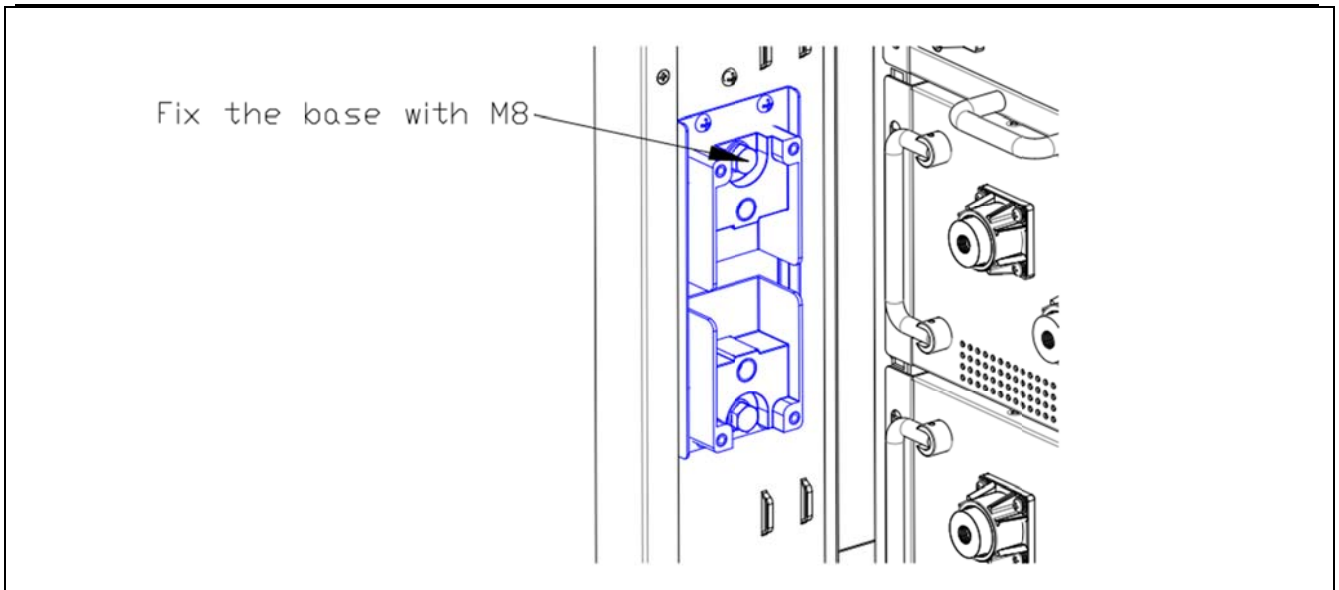


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10.6 Interconnection inside the cabinet

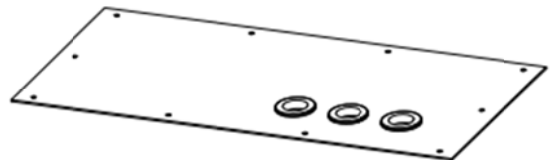
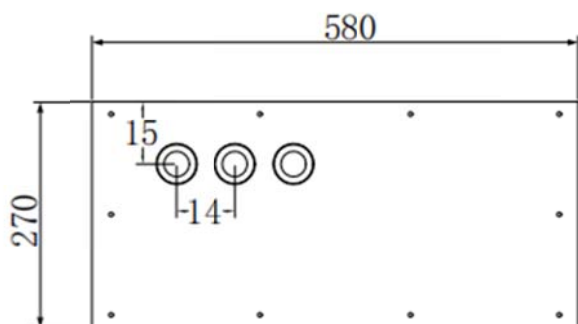
10.6.1 Output cable connection Without Gland



Note: LIBVIS8×50250IEC、LIBVIS10×50250IEC、LIBVIS12×50250IEC、LIBVIS8×100630IEC do not need the gland box.

Step1 cut hole from guard coil

TP80\TP100\TP120:



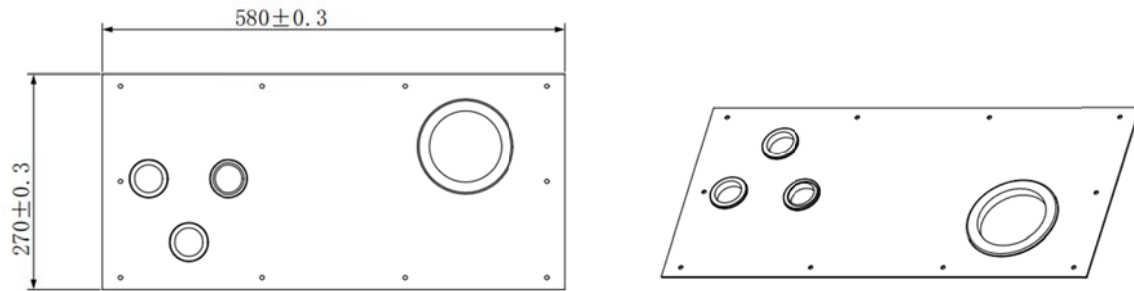
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Tel: 0755-66851118 Fax: 0755-66850678 Email: sales@vision-batt.com

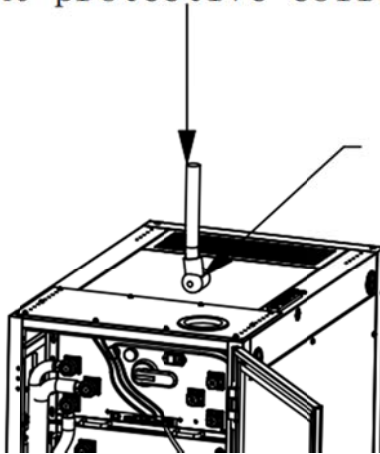
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TP160\TP200\TP240:



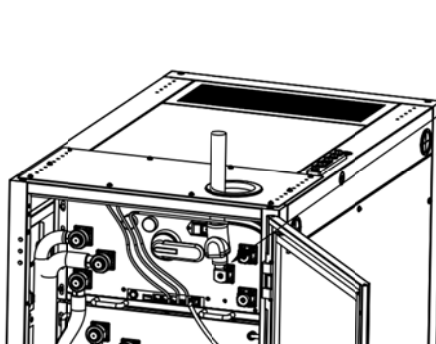
Step2 routine the cable and asseble the cable with lug and inslation cap provided

The cable passes through
the protective coil;



Routine the cable and
asseble the cable with lug
and inslation cap provided;

Step3 connect the external cable with cbms



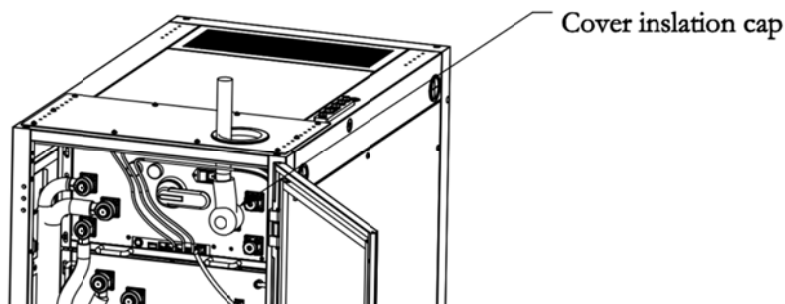
The copper nose of the cable is
fixed to the corresponding terminal
of CBMS with M10 screws.

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Step 4: Connect the output power cable.

LIBVIS8×100630IEC 、 LIBVIS10× 100630IEC、 LIBVIS12×100630IEC	LIBVIS8×50250IEC、 LIBVIS10×50250IEC、 LIBVIS12×50250IEC



Before connecting the output power cable, remember to put on the insulating cap.

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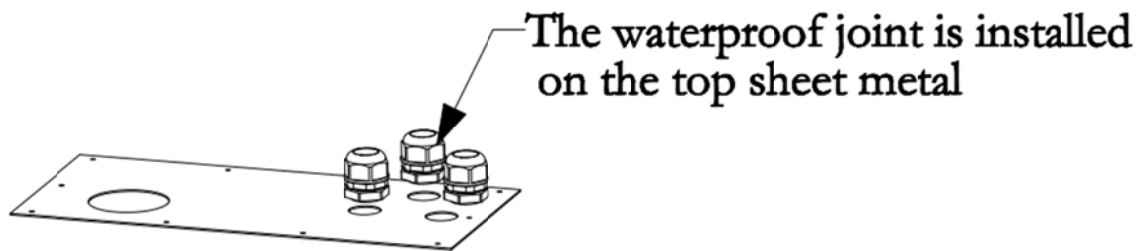
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10.6.2 Output cable connection With Gland



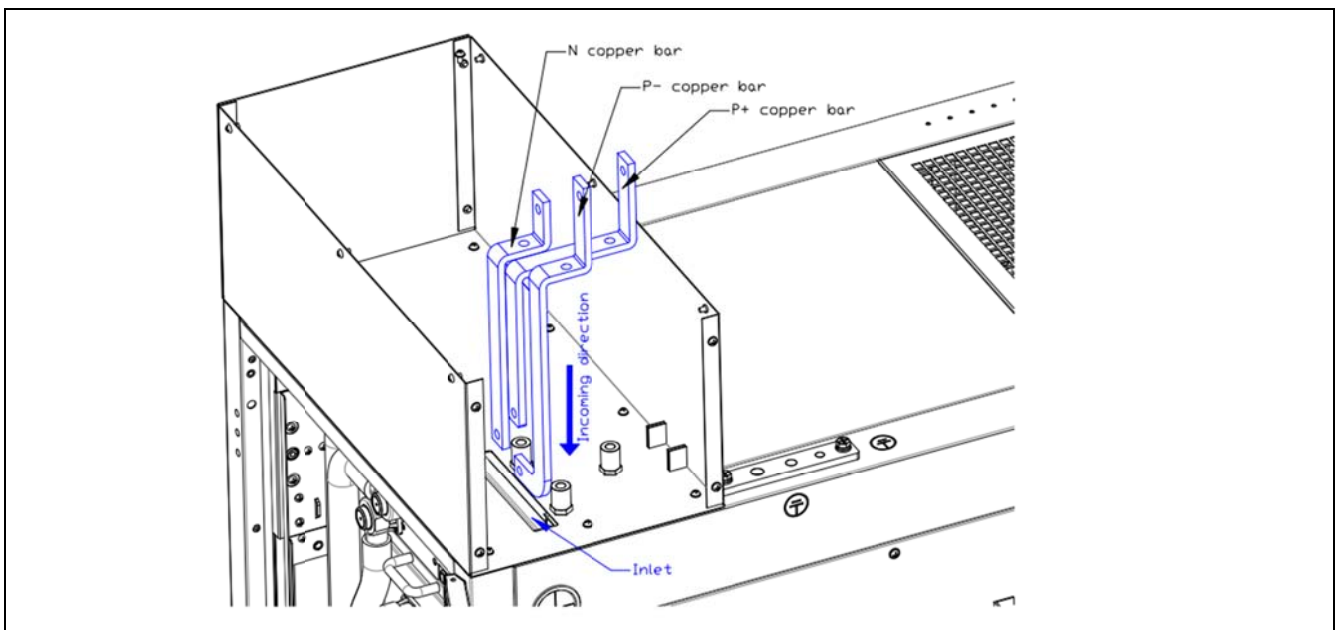
Note that the gland box is the only option for LIBVIS10×100630IEC、LIBVIS12×100630IEC.

Step 1 install the Gland



Step 2: connect the power busbar

(1) Review of the copper busbar



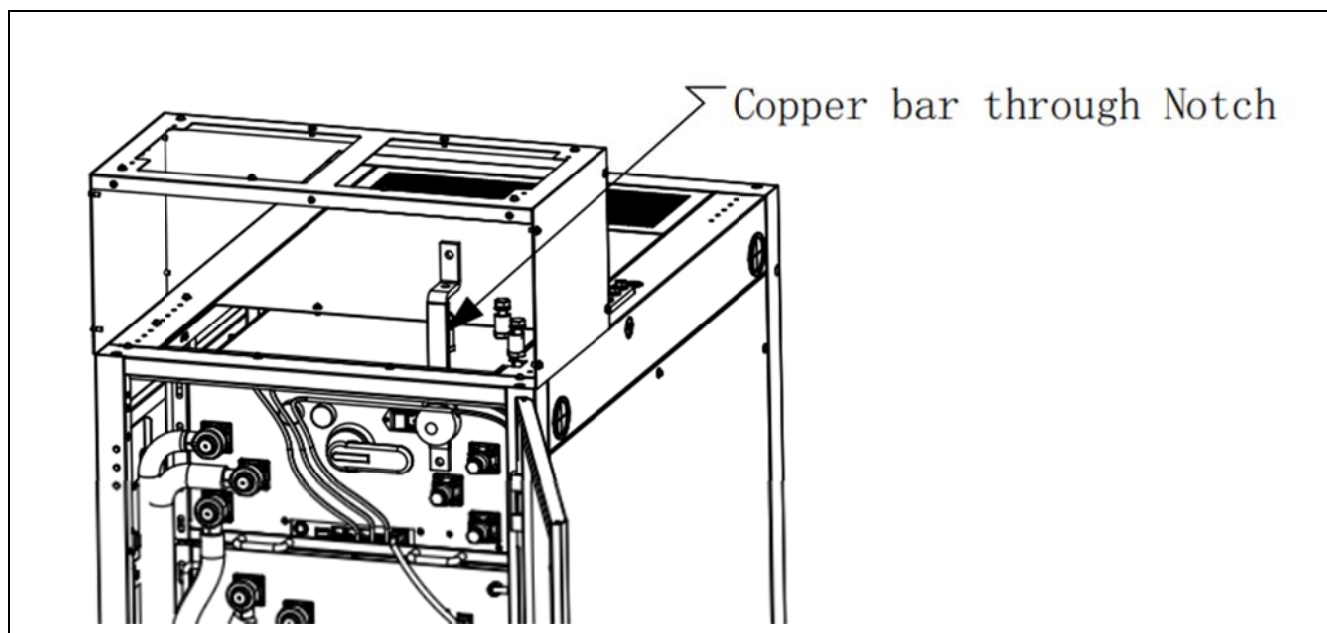
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Address: Rooms 9-12, 7F, Block B, Building 7, Zone 2, Shenzhen Bay Technological and Ecological Park, Nanshan District, Shenzhen, China

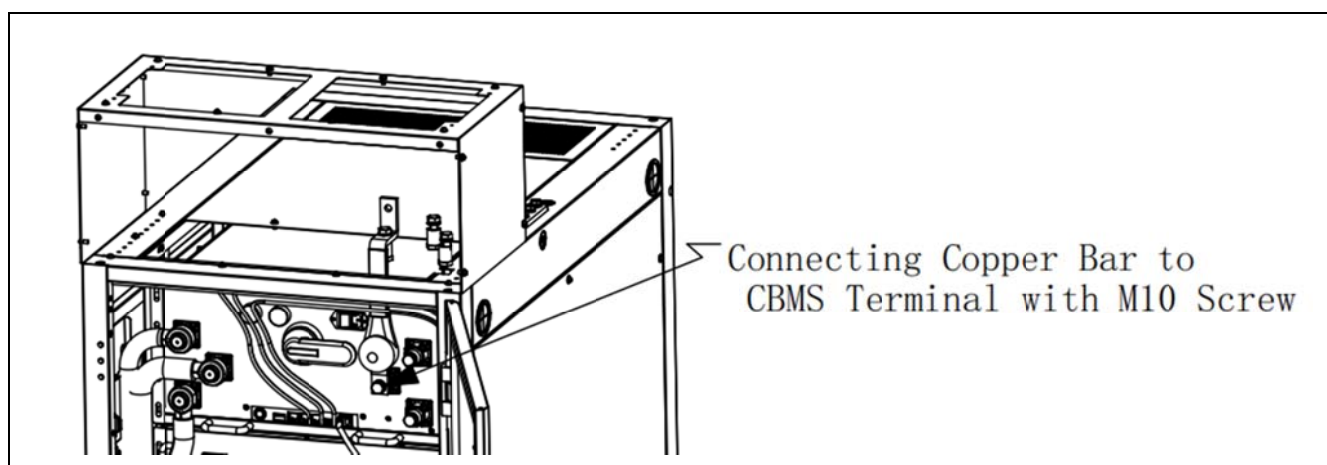
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(2) Install the N copper busbar(mid-point)



(3) Fix the N copper busbar with M10 screws



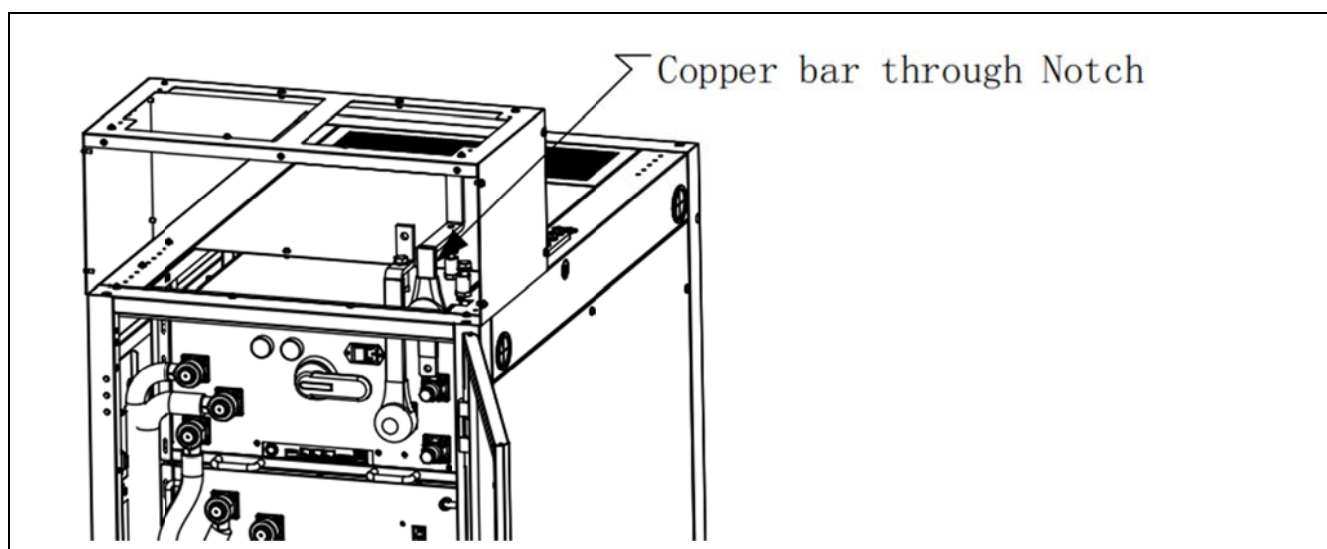
SHENZHEN CENTER POWER TECH CO., LTD

Address: Rooms 9-12, 7F, Block B, Building 7, Zone 2, Shenzhen Bay Technological and Ecological Park, Nanshan District, Shenzhen, China

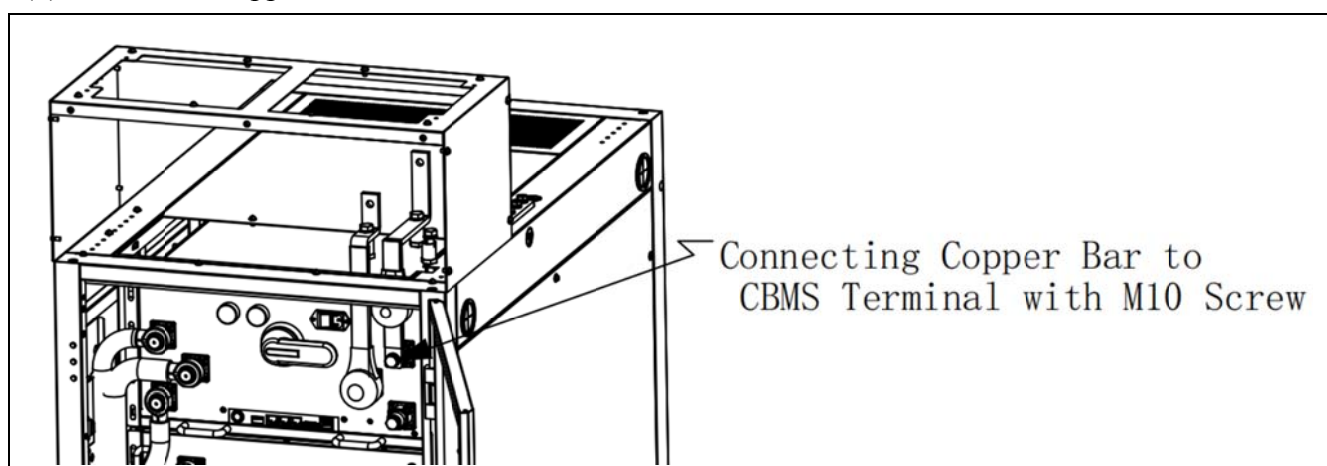
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(4) Install the P+ copper busbar



(5) Fix the P+ copper busbar with M10 screws



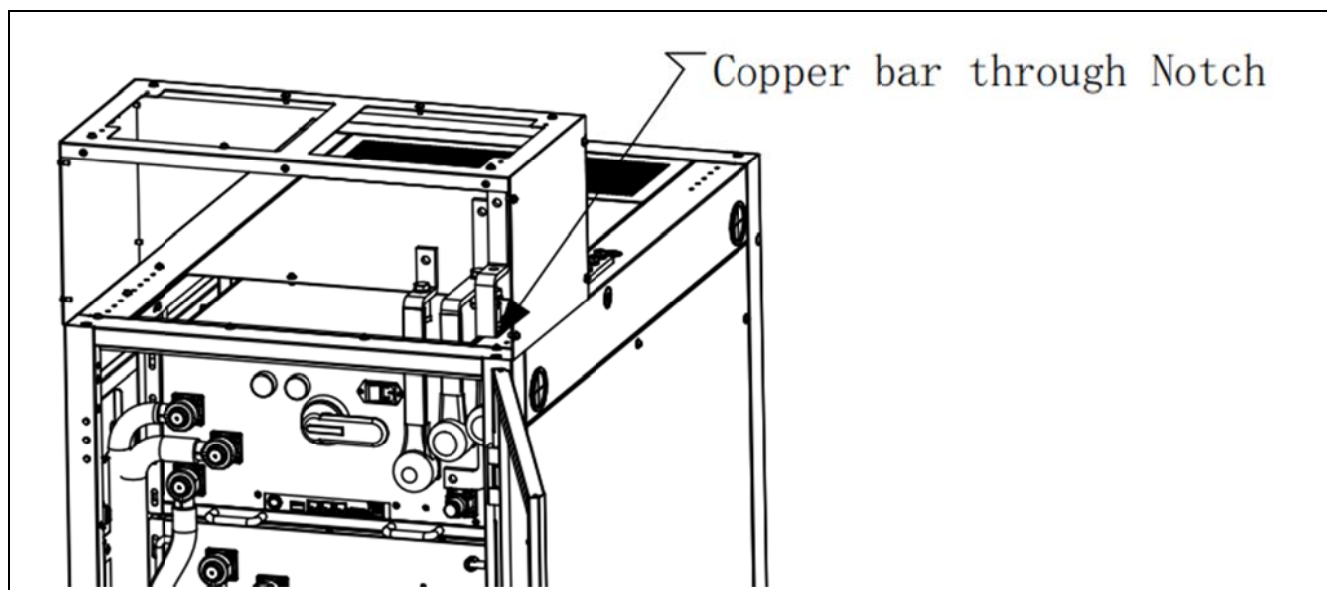
SHENZHEN CENTER POWER TECH CO., LTD

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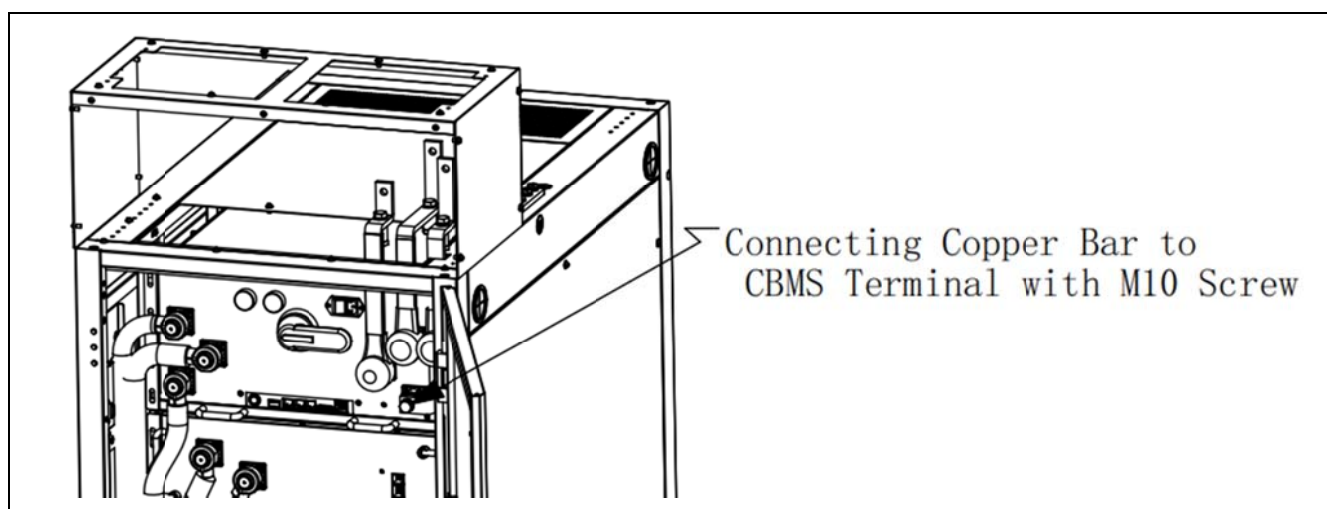
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(6) Install the P- copper busbar



(7) Fix the P- copper busbar with M10 screws



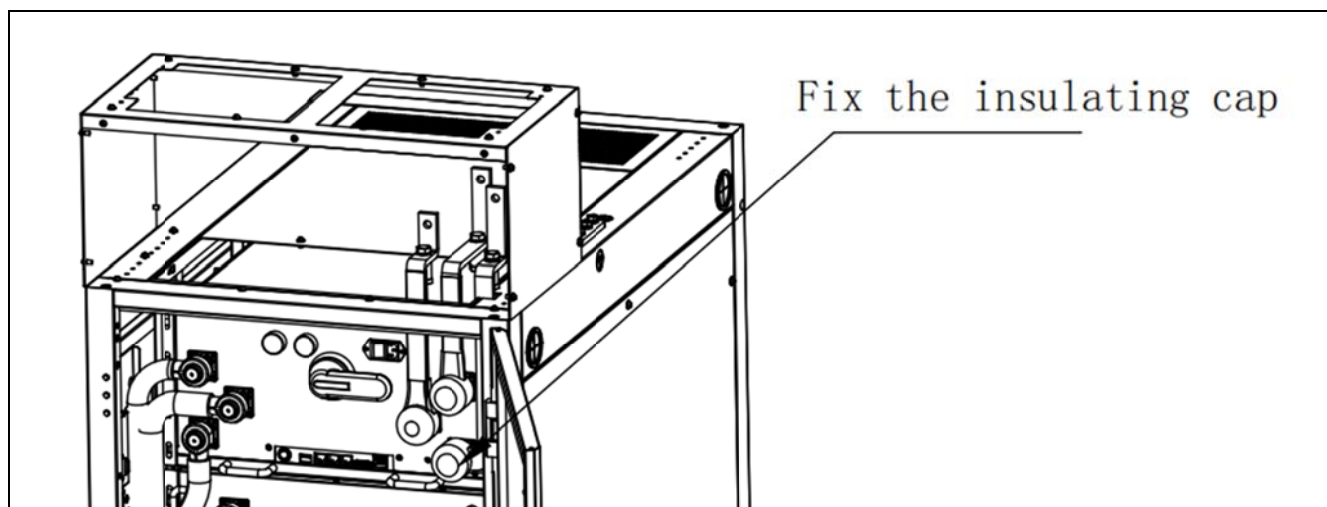
SHENZHEN CENTER POWER TECH CO., LTD

Address: Rooms 9-12, 7F, Block B, Building 7, Zone 2, Shenzhen Bay Technological and Ecological Park, Nanshan District, Shenzhen, China

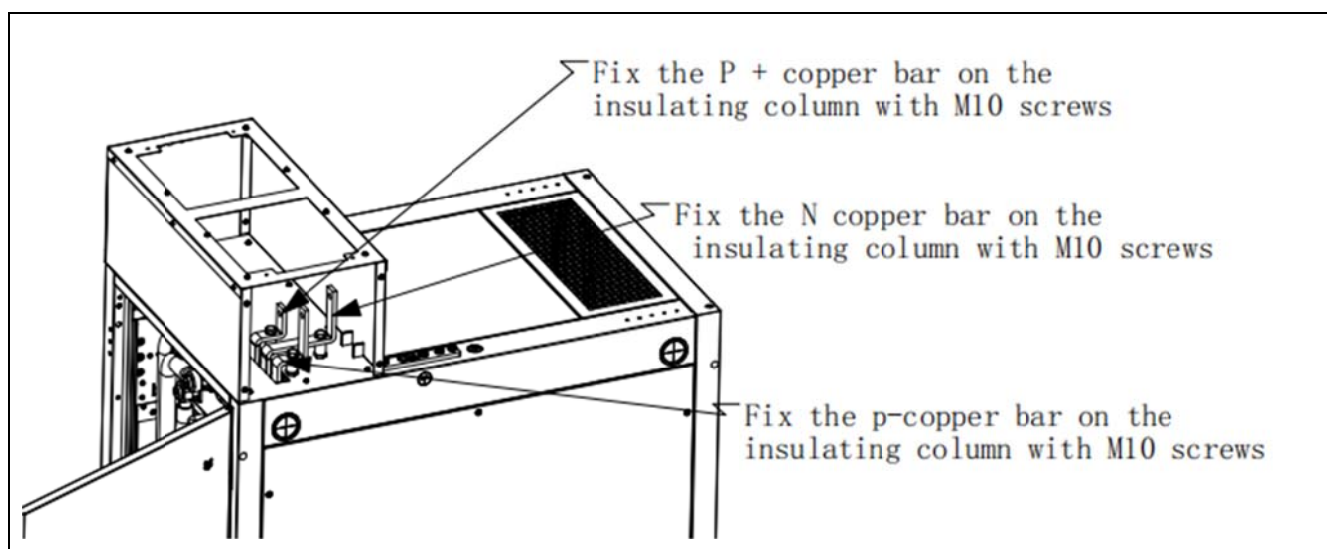
Tel: 0755-66851118 Fax: 0755-66850678 Email: sales@vision-batt.com

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(8) Cover the insulating cap



(9) Fix all the copper bar on the insulation column



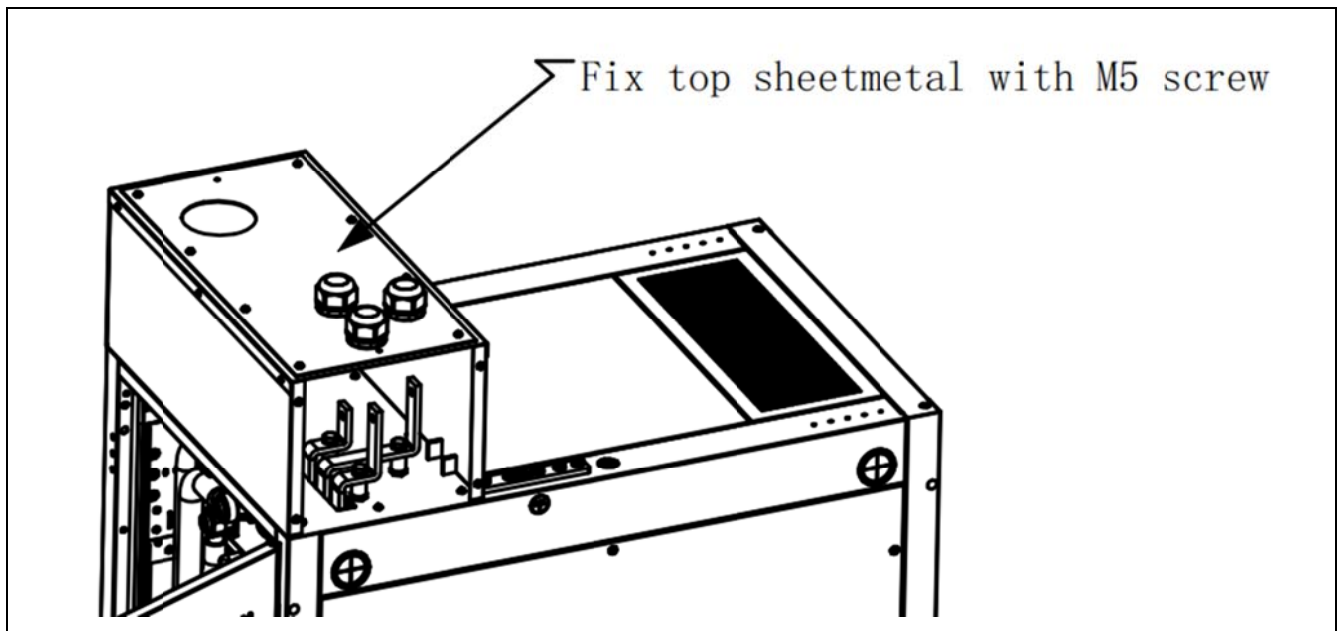
SHENZHEN CENTER POWER TECH CO., LTD

Address: Rooms 9-12, 7F, Block B, Building 7, Zone 2, Shenzhen Bay Technological and Ecological Park, Nanshan District, Shenzhen, China

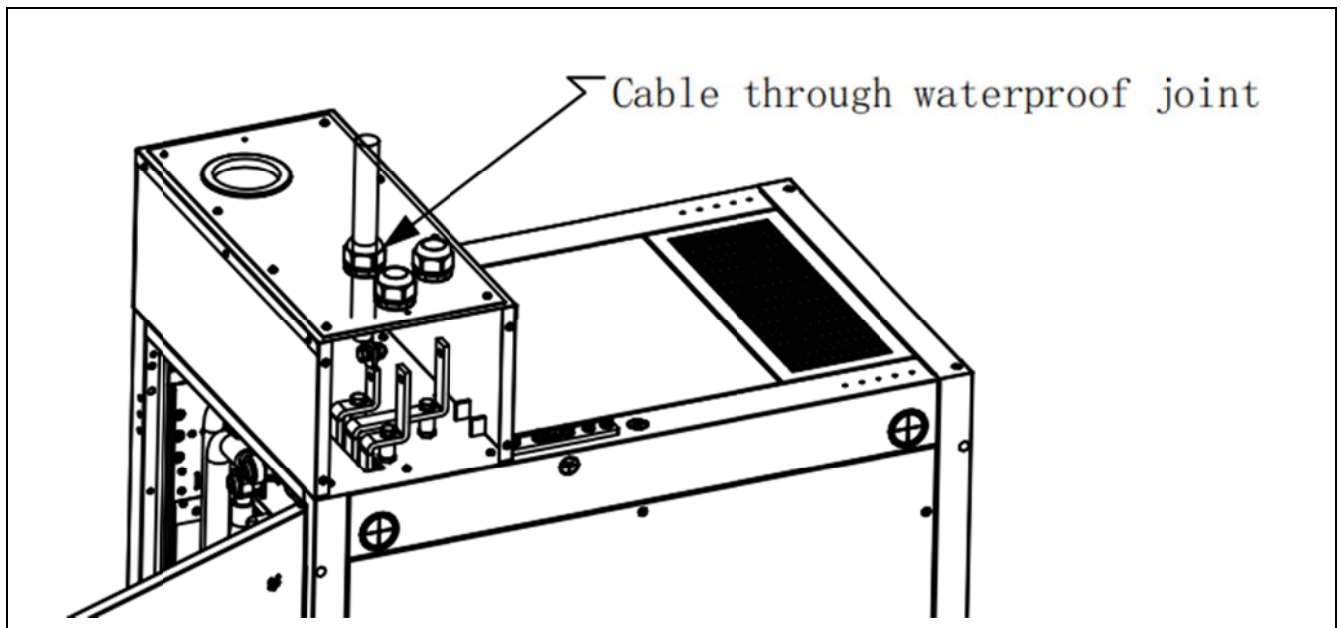
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(10) Install the aluminum plate



(11) connect the N output power cable

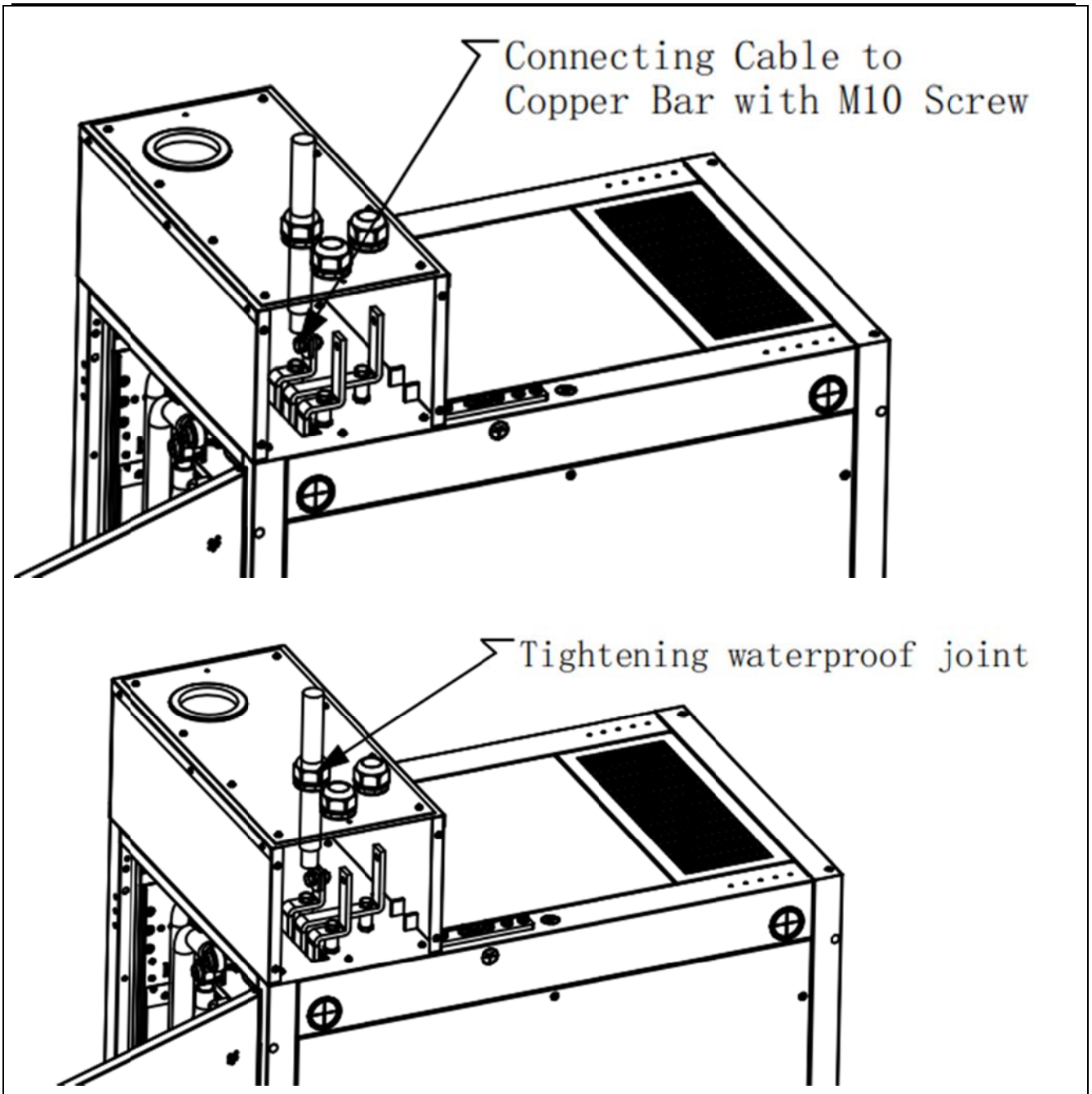


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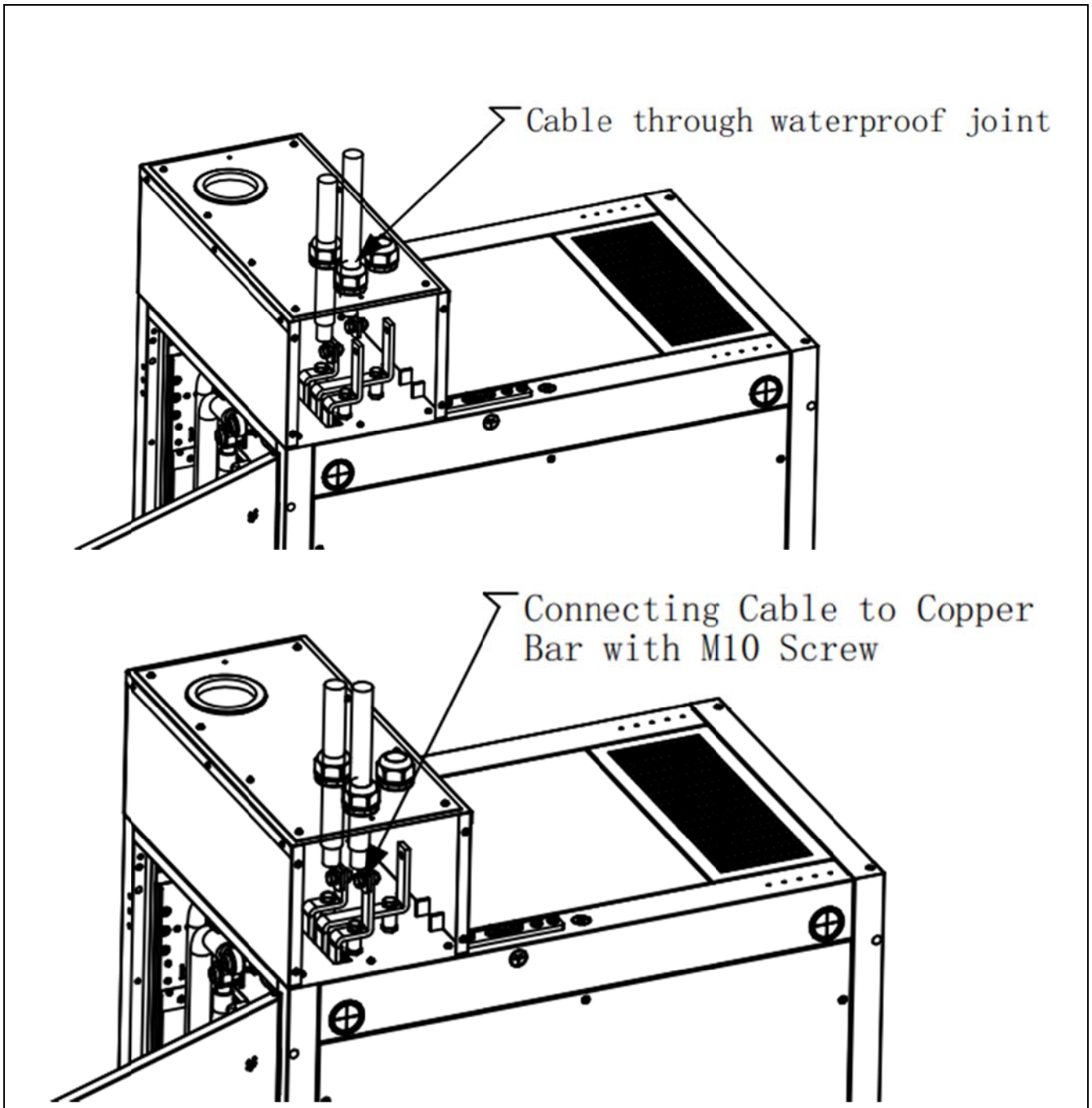
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(12)connect the P- output power cable

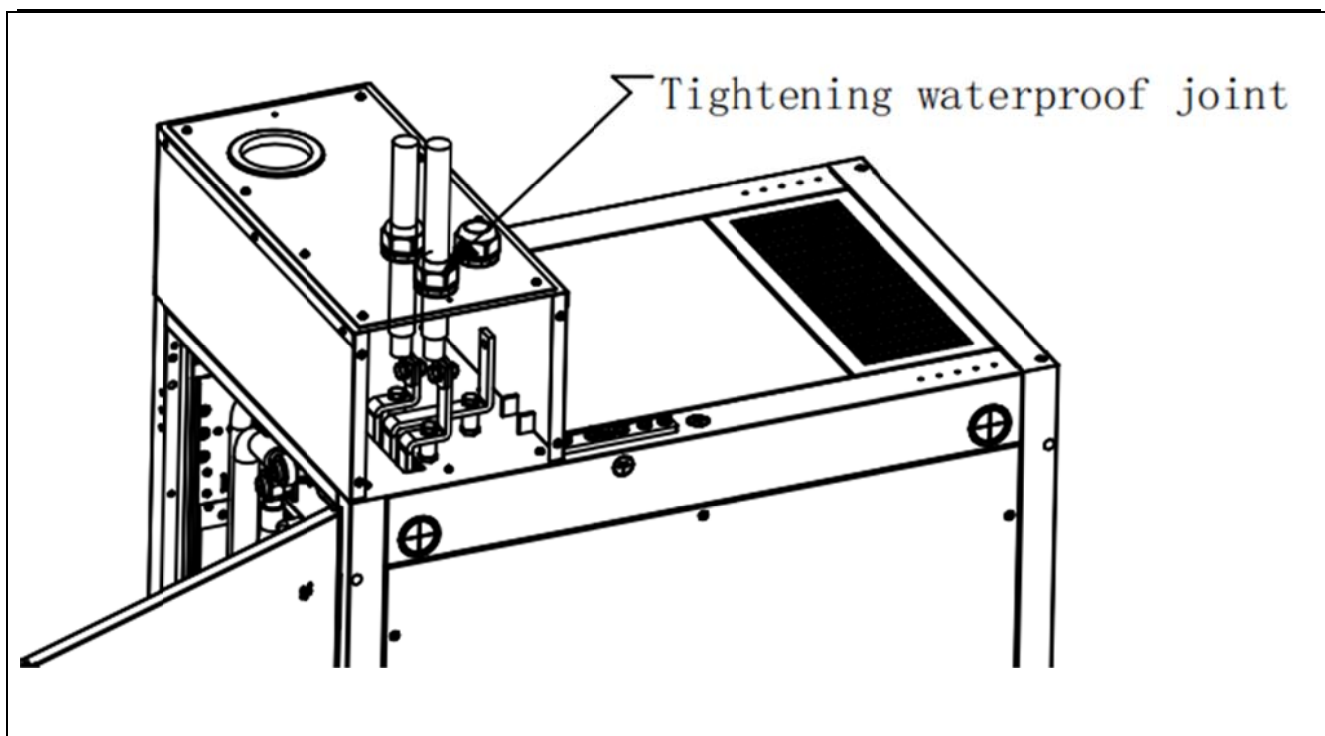


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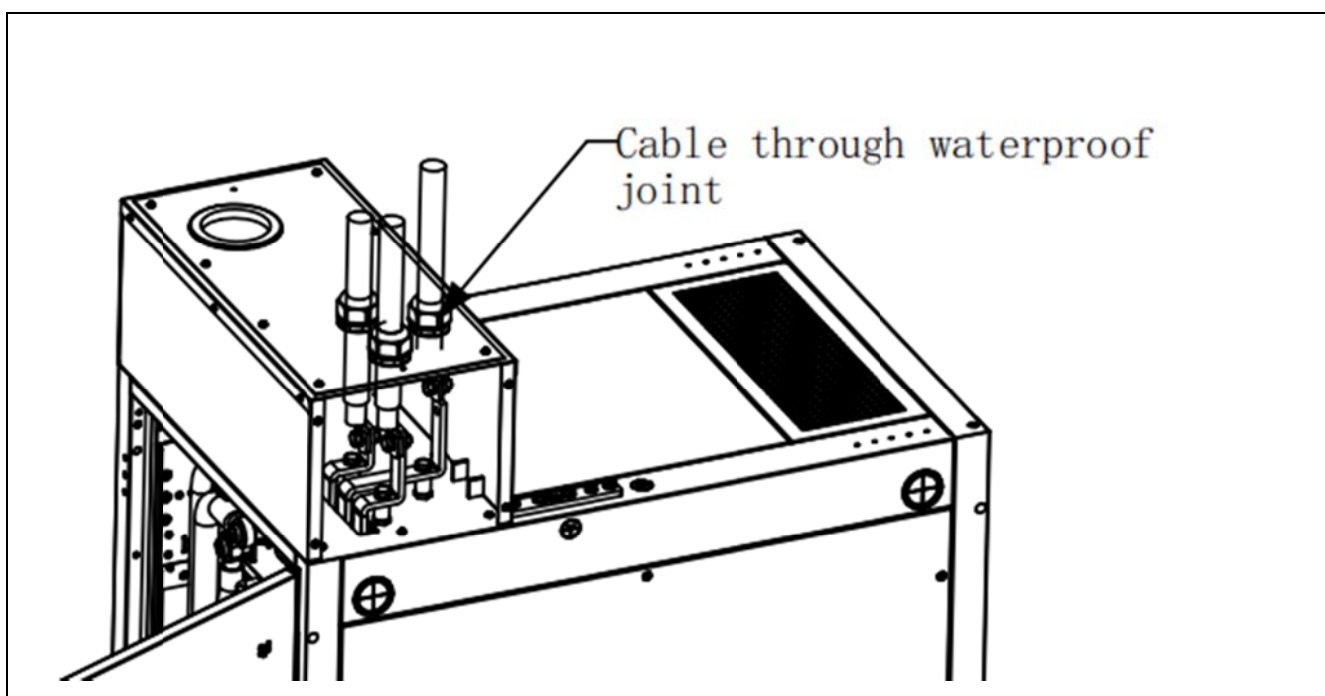
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(13)connect the P+ output power cable

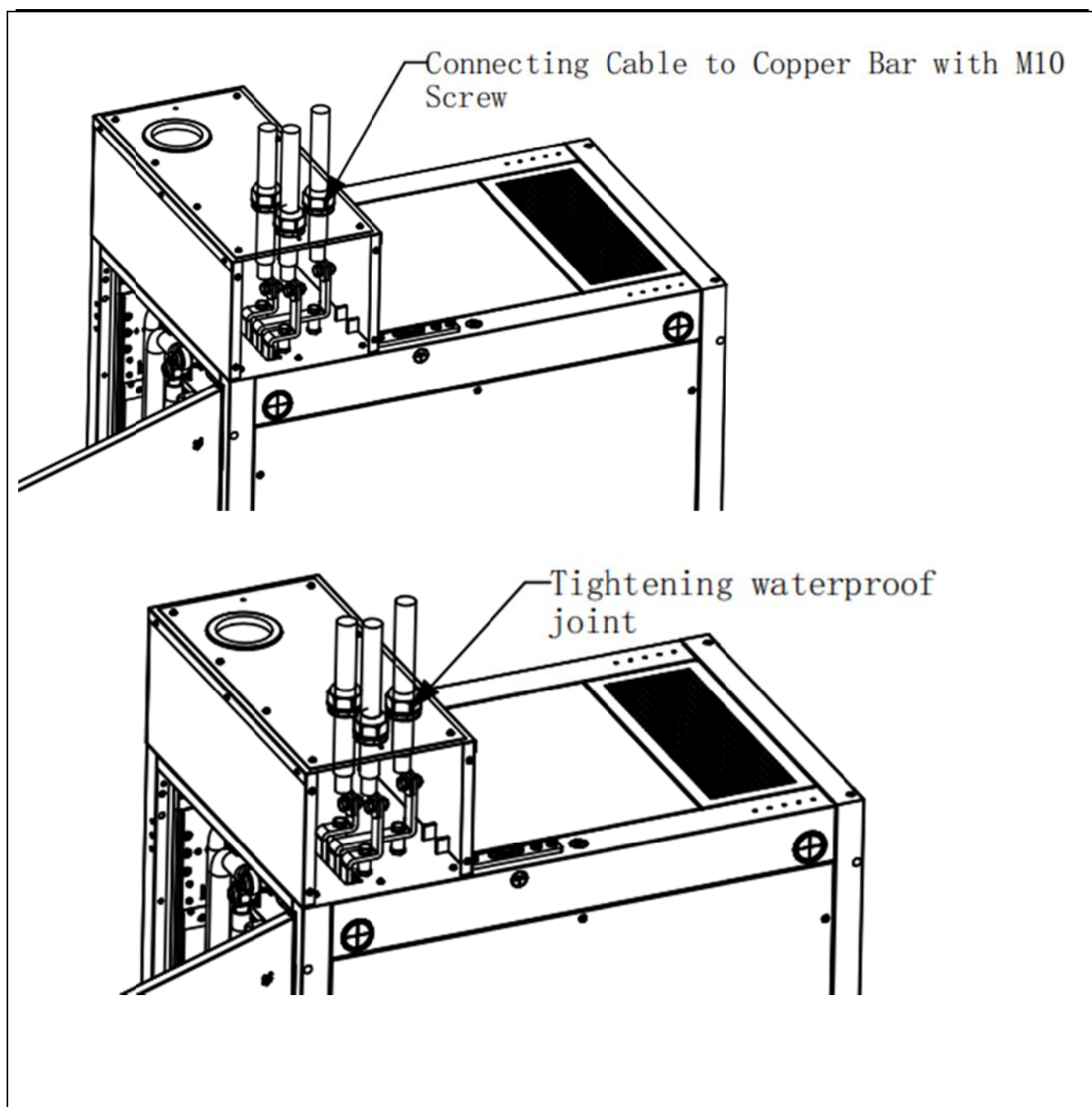


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10.6.3 Connection of AC power

The master control CBMS of REVO series system adopts DC and AC for its Double Safety Power Supply Mode. Normal mains power will be supplied by AC first. The specification is 85~264VAC ($\pm 5\%$ variation range), and the frequency is 47~63Hz.

AC connection can be connected with UPS output or other AC power supply.

- AC cable (white cable marked as 4、5、6)

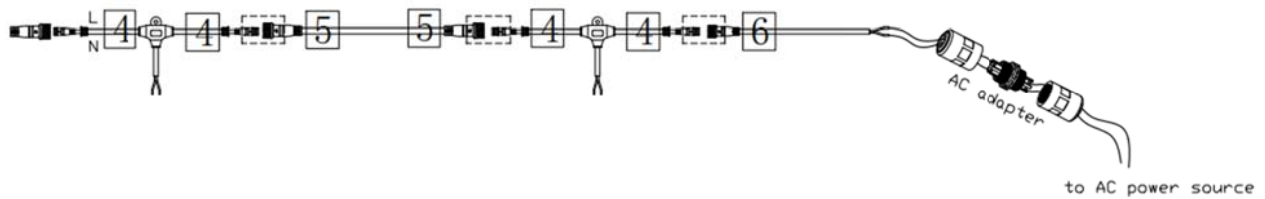
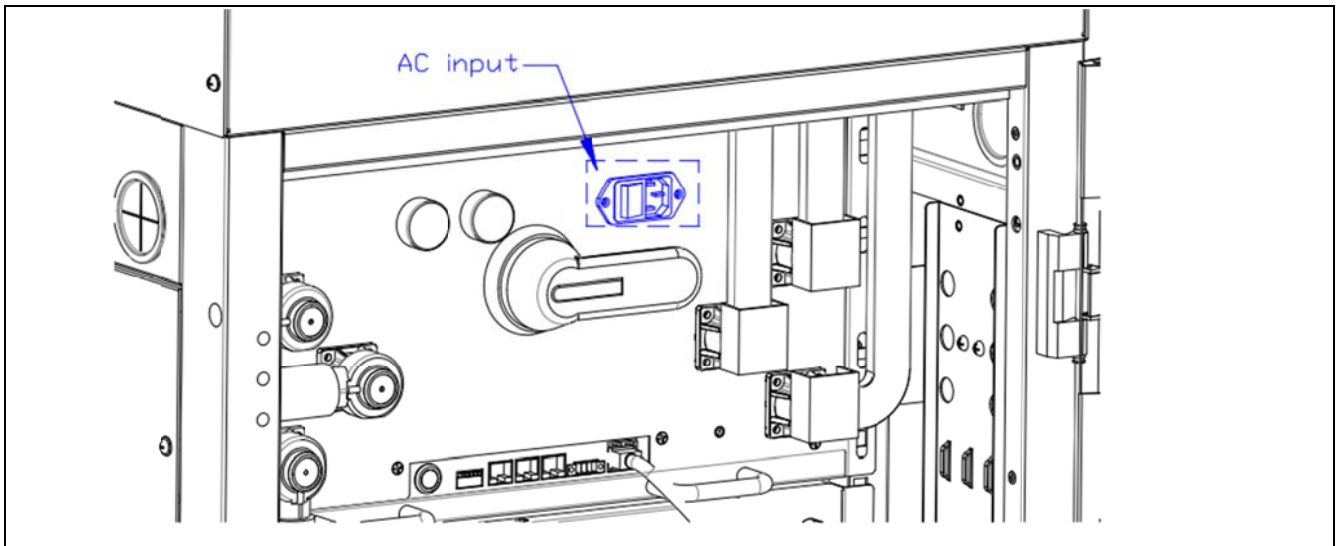


Figure 10.6.4.1 AC power connection for CBMS parallels

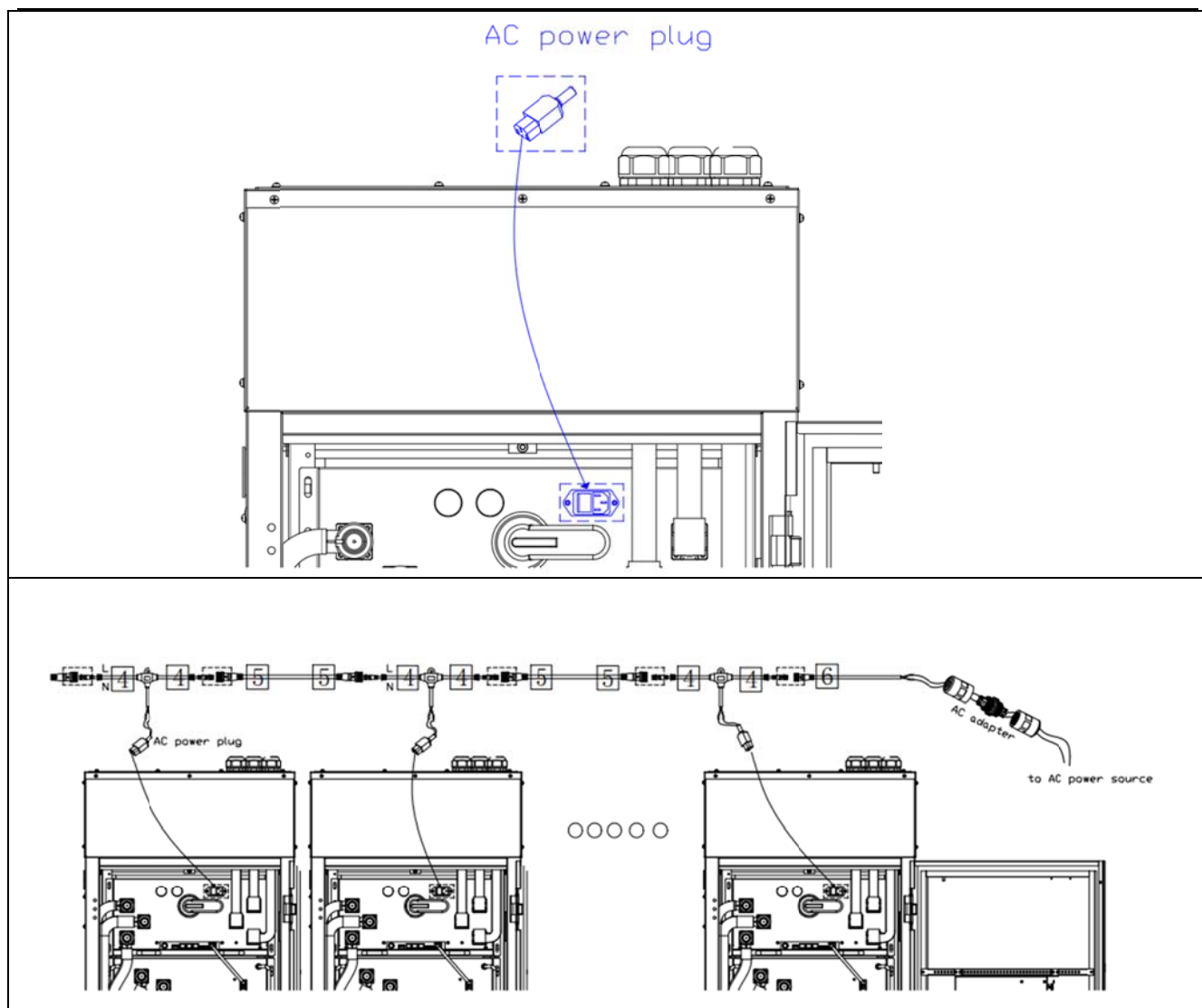


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The AC input of CBMS from AC power source should be connected with a miniature circuit breaker to ensure safety. The recommended model is as follows:

Model	IC65L 2P C16A
Pole number	2
Rated voltage	400VAC
Rated current	16A

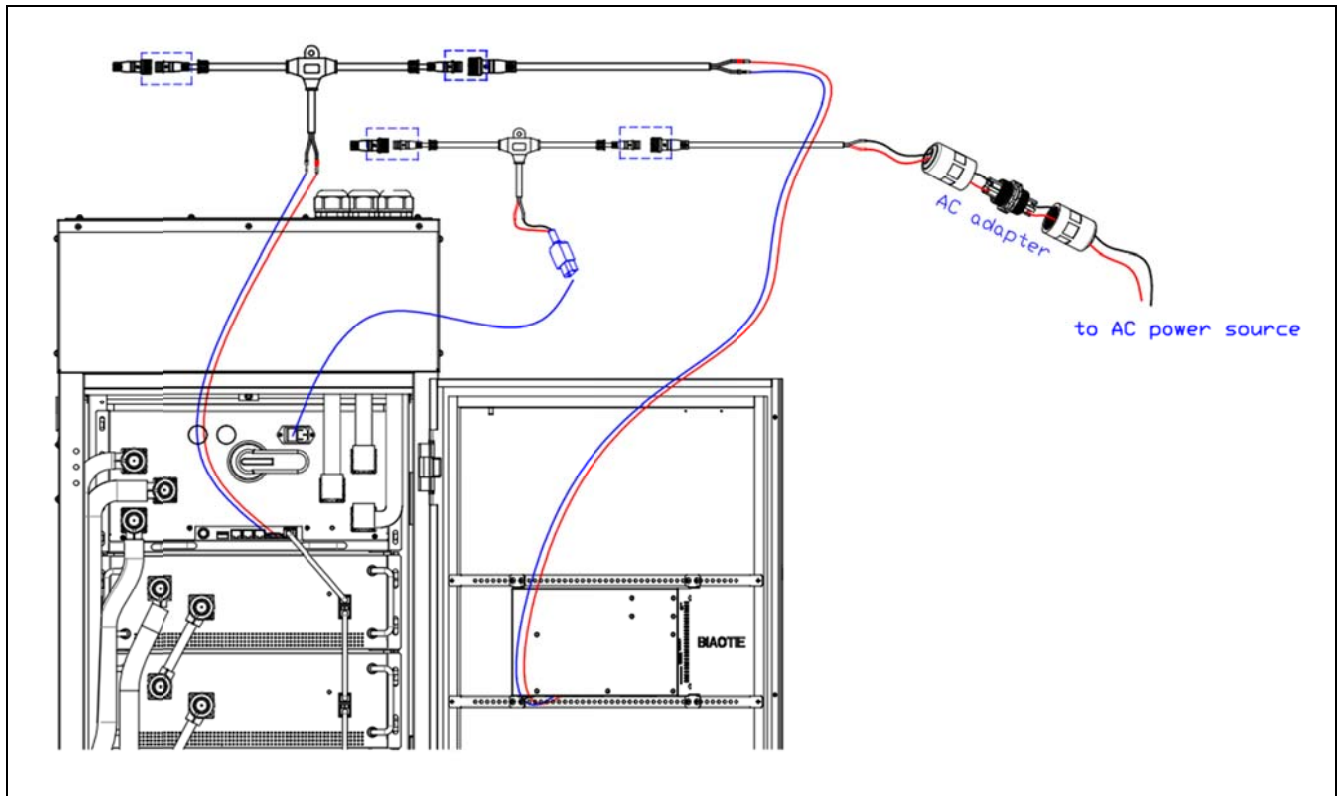
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- Connection of 24V and AC power source for single cabinet



Note that the unconnected interface on the left end should be connected with a blind terminal.

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11 Appendix

11.1 Limitation of liability

Liability exemption:

- ❖ In the following cases, our company has the right not to provide quality assurance.
- ❖ Customers does not install, use or modify properly following this Manual.
- ❖ Product is damaged in transit.
- ❖ Product failure is caused by installation, replacement or unloading by non-relevant technical personnel or personnel not from our company.
- ❖ Product failure and damage caused by operating environment beyond manual specification or abnormal natural environment, such as floods, typhoons, earthquakes, etc.
- ❖ Product failure or damage caused by wrong operation or installation not in accordance with relevant standards.
- ❖ The products exceed the warranty period.

For product failure or damage caused by the above reasons, if the customer requires replacement or maintenance services, we can provide corresponding paid services when our after-sales service confirm and evaluate the extent of damage.

11.2 About VISION

If you have any questions during the use or installation of the product, please contact the relevant personnel of Vision in time. Our company will arrange relevant after-sales service in time. Contact information is as follows

Shenzhen Center Power Tech Co.,Ltd.

CenterPower technology park, tongfu industrial zone, dapeng town, dapeng new district,
shenzhen city

Tel: +86-755-66851118 Fax: +86-755-66850678

Email: sales@vision-batt.com

Web: www.senry-batt.com www.vision-batt.com



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11.3 About storage

- a. Short-term lithium storage: if the lithium battery is not used for a short period of time(≤ 6 months), the battery should be stored in $-10\sim 50\text{ }^{\circ}\text{C}$ & $0\sim 95\%$ non-densing environment;
- b. Long-term lithium storage: if the lithium battery is not used for a long time(≥ 12 months), the battery should be stored in $0\sim 35\text{ }^{\circ}\text{C}$ & $0\sim 95\%$ non-densing environment;
- c. Any batteries stored for longer than 12 months should be maintained, Please contact your service for technical support
- d. Storage period starts from the date of entry into the warehouse;
- e. Refer to the batteries maintenance for charging method.

11.4 BOM List of PTO

11.4.1

LIBVIS8X50250

SKU NO	QTY	Material No.	Description	Spec	Qty
LIBVISSG250IEC	1	DZ.BMS.675-LLG	CBMS 主控箱 CBMS Control box	LUF16S10D250AD0AC(TUV)	1
		DZ.SJX.039-WSD	网线 Internet Cable	超六类线，线长 1.5m，两端加镀金水晶头 1500 mm Gold-plated crystal heads at both ends	1
		DZ.DCL.947-CHG	电池连接线 Power cable	70mm×1350x9 一端红帽线 一端压端子 SC70-8（带尼龙螺母）接正极 70mm×1350x9 One end of the red cap wire, one end of the crimp terminal SC70-8 (with nylon nut) connected to the positive electrode	1
		DZ.DCL.948-CHG	电池连接线 Power cable	70mm×470x9 一端红帽线 一端压端子 SC70-8（带尼龙螺母）接正极 70mm×470x9 One end of the red cap wire, one end of the crimp terminal SC70-8 (with nylon nut) connected to the positive electrode	1
		DZ.DCL.949-CHG	电池连接线 Power cable	70mm×230x9 一端红帽线 一端压端子 SC70-8（带尼龙螺母）接中线 70mm×230x9 One end of the red cap wire, one end of the crimp terminal SC70-8 (with nylon nut) connected to the neutral wire	1
		DZ.DCL.950-CHG	电池连接线 Power cable	70mm×1100x9 一端灰帽线 一端压端子 SC70-8（带尼龙螺母）接中线 70mm×1100x9 gray cap wire at one end, crimp terminal SC70-8 (with nylon nut) at one end to the neutral wire	1
		DZ.DCL.951-CHG	电池连接线 Power cable	70mm×450x9 一端蓝帽线 一端压端子 SC70-8（带尼龙螺母）接负极 70mm×450x9 One end blue cap wire, one end crimp terminal SC70-8 (with nylon nut) connected to the negative pole	1
		DZ.DCL.952-CHG	电池连接线	70mm×600x9 一端蓝帽线 一端压端子 SC70-8（带尼龙螺母）接负极 70mm×600x9 blue cap wire on one end, crimp terminal SC70-8 (with nylon nut) on the other end to the negative pole	1

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			Power cable		
		WJ.DXL.011-KNT	50Ah 中线接线盒 Neutral junction box	塑胶+五金注塑成型 尺寸: 81.6x80.2x50.5mm 颜色: 灰色 Plastic + metal injection molding Size: 81.6x80.2x50.5mm Color: gray	1
		DZ.DLQ.034-HTG	底座 Base	防火 ABS/71*57*34mm/料厚 2mm/黑色/固定孔 M8 Fireproof ABS/71*57*34mm/material thickness 2mm/black/fixing hole M8	4
		DZ.DLQ.032-HTG	上护盖 Upper cover	防火 ABS/81*57*23mm/料厚 2mm/黑色 Fireproof ABS/81*57*23mm/material thickness 2mm/black	4
		DZ.BXS.015-ETG	保险丝 FUSE	170M17xx-25-315A	2
		WJ.LSP.254-FYG	螺丝 screw	带螺纹有效距离不锈钢 M4*12mm 十字盘头弹垫一体螺杆(国标) Effective distance with thread stainless steel M4*12mm cross pan head spring washer integrated screw (GB)	8
		WJ.LSP.256-FYG	底座固定螺丝 Base fixing screws	M8*16 (塑料螺丝) M8*16 (plastic screw)	6
		WJ.DPL.048-FYG	垫片 Gasket	PVC M8*16*1	6
		WJ.DZL.299-TLC	端子 Terminal	铜鼻子 SC70-8 镀锡 Copper nose SC70-8 tin plated	3
		SJ.BHG.109-RHD	端子保护套 Terminal protection cover	红色 100mm2 Red 100mm2	1
		SJ.BHG.110-RHD	端子保护套 Terminal protection cover	黑色 100mm2 Black 100mm2	1
		SJ.BHG.141-RHD	端子保护套 Terminal protection cover	灰色 100mm2 Gray 100mm2	1
		DZ.DYX.076-AHD	CBMS 供电线 CBMS power supply cable	两端母头 500mm (白色) 500mm female at both ends (white)	1

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		DZ.DYX.077-AHD	CBMS 供电线 CBMS power supply cable	三通 185mm, 出线 500mm (白色) Tee 185mm, outlet wire 500mm (white)	1
		DZ.DYX.072-AHD	CBMS 供电线 CBMS power supply cable	两端母头 500mm 500mm female at both ends	1
		DZ.DYX.073-AHD	CBMS 供电线 CBMS power supply cable	三通 185mm Three terminal	1
		WJ.LSP.325-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M8*15 Outer hexagon combination screws: GB/T 9074.17-1988_M8*15	1
		WJ.LSP.061-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M8*20 Outer hexagonal combination screws: GB/T 9074.17-1988_M8*20	10
			Installation and operation	REVO installation and operation Manual	1
LIBVISRAC50AH2000	1	WJ.JGL.166-HHZ	电池机柜 Cabinet	施耐德标准机柜/512V50AH/600x1000x2000/带屏幕/带防尘网/镀锌板结构/可装熔断器/RAL9003 光面/带接地 铜排/带卡板 12Module Schneider standard cabinet/512V50AH/600x1000x2000/with screen/with dust-proof net/galvanized sheet structure/installable fuse/RAL9003 smooth surface/with grounding copper bar/with card board 12Module	1
LIBVISM050	8	DC.051.050-PT039C	51.2V50AH	51.2V50AH (MODULE-V02)	1
		DZ.DCL.962-CHG	电池连接线 Power cable	70mm*91x9 红蓝帽线(带尼龙螺母)	1
		DZ.DCL.599-WSD	模组信号连接器端子线束 Module signal connector terminal wiring harness	双边带插头,长度: 180mm,51.2V50AH(新 BMU) Double-sided belt plug, length: 180mm, 51.2V50AH (new BMU)	1
		WJ.LSP.061-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M8*20 Outer hexagonal combination screws: GB/T 9074.17-1988_M8*20	2

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11.4.2

LIBVIS10X50250

SKU NO	QTY	Material No.	Description	Spec	Qty
LIBVIS10X50250	1	DZ.BMS.675-LLG	CBMS 主控箱 CBMS Control box	LUF16S10D250AD0AC(TUV)	1
		DZ.SJX.039-WSD	网线 Internet Cable	超六类线，线长 1.5m，两端加镀金水晶头 1500 mm Gold-plated crystal heads at both ends	1
		DZ.DCL.947-CHG	电池连接线 Power cable	70mm×1350x9 一端红帽线 一端压端子 SC70-8（带尼龙螺母）接正极 70mm×1350x9 One end of the red cap wire, one end of the crimp terminal SC70-8 (with nylon nut) connected to the positive electrode	1
		DZ.DCL.948-CHG	电池连接线 Power cable	70mm×470x9 一端红帽线 一端压端子 SC70-8（带尼龙螺母）接正极 70mm×470x9 One end of the red cap wire, one end of the crimp terminal SC70-8 (with nylon nut) connected to the positive electrode	1
		DZ.DCL.949-CHG	电池连接线 Power cable	70mm×230x9 一端红帽线 一端压端子 SC70-8（带尼龙螺母）接中线 70mm×230x9 One end of the red cap wire, one end of the crimp terminal SC70-8 (with nylon nut) connected to the neutral wire	1
		DZ.DCL.950-CHG	电池连接线 Power cable	70mm×1100x9 一端灰帽线 一端压端子 SC70-8（带尼龙螺母）接中线 70mm×1100x9 gray cap wire at one end, crimp terminal SC70-8 (with nylon nut) at one end to the neutral wire	1
		DZ.DCL.951-CHG	电池连接线 Power cable	70mm×450x9 一端蓝帽线 一端压端子 SC70-8（带尼龙螺母）接负极 70mm×450x9 One end blue cap wire, one end crimp terminal SC70-8 (with nylon nut) connected to the negative pole	1
		DZ.DCL.952-CHG	电池连接线 Power cable	70mm×600x9 一端蓝帽线 一端压端子 SC70-8（带尼龙螺母）接负极 70mm×600x9 blue cap wire on one end, crimp terminal SC70-8 (with nylon nut) on the other end to the negative pole	1

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		WJ.DXL.011-KNT	50Ah 中线接线盒 Neutral junction box	塑胶+五金注塑成型 尺寸: 81.6x80.2x50.5mm 颜色: 灰色 Plastic + metal injection molding Size: 81.6x80.2x50.5mm Color: gray	1
		DZ.DLQ.034-HTG	底座 Base	防火 ABS/71*57*34mm/料厚 2mm/黑色/固定孔 M8 Fireproof ABS/71*57*34mm/material thickness 2mm/black/fixing hole M8	4
		DZ.DLQ.032-HTG	上护盖 Upper cover	防火 ABS/81*57*23mm/料厚 2mm/黑色 Fireproof ABS/81*57*23mm/material thickness 2mm/black	4
		DZ.BXS.015-ETG	保险丝 FUSE	170M17xx-25-315A	2
		WJ.LSP.254-FYG	螺丝 screw	带螺纹有效距离不锈钢 M4*12mm 十字盘头弹垫一体螺杆(国标) Effective distance with thread stainless steel M4*12mm cross pan head spring washer integrated screw (GB)	8
		WJ.LSP.256-FYG	底座固定螺丝 Base fixing screws	M8*16 (塑料螺丝) M8*16 (plastic screw)	6
		WJ.DPL.048-FYG	垫片 Gasket	PVC M8*16*1	6
		WJ.DZL.299-TLC	端子 Terminal	铜鼻子 SC70-8 镀锡 Copper nose SC70-8 tin plated	3
		SJ.BHG.109-RHD	端子保护套 Terminal protection cover	红色 100mm2 Red 100mm2	1
		SJ.BHG.110-RHD	端子保护套 Terminal protection cover	黑色 100mm2 Black 100mm2	1
		SJ.BHG.141-RHD	端子保护套 Terminal protection cover	灰色 100mm2 Gray 100mm2	1
		DZ.DYX.076-AHD	CBMS 供电线 CBMS power supply cable	两端母头 500mm (白色) 500mm female at both ends (white)	1
		DZ.DYX.077-AHD	CBMS 供电线 CBMS power supply cable	三通 185mm, 出线 500mm (白色) Tee 185mm, outlet wire 500mm (white)	1

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		DZ.DYX.072-AHD	CBMS 供电线 CBMS power supply cable	两端母头 500mm 500mm female at both ends	1
		DZ.DYX.073-AHD	CBMS 供电线 CBMS power supply cable	三通 185mm Three terminal	1
		WJ.LSP.325-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M8*15 Outer hexagon combination screws: GB/T 9074.17-1988_M8*15	1
		WJ.LSP.061-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M8*20 Outer hexagonal combination screws: GB/T 9074.17-1988_M8*20	10
			User Manual	REVO USER Manual	1
LIBVISRAC50AH2000	1	WJ.JGL.166-HHZ	电池机柜 Cabinet	施耐德标准机柜/512V50AH/600x1000x2000/带屏幕/带防尘网/镀锌板结构/可装熔断器/RAL9003 光面/带接地 铜排/带卡板 12Module Schneider standard cabinet/512V50AH/600x1000x2000/with screen/with dust-proof net/galvanized sheet structure/installable fuse/RAL9003 smooth surface/with grounding copper bar/with card board 12Module	1
LIBVISMOD50	10	DC.051.050-PT039C	51.2V50AH	51.2V50AH (MODULE-V02)	1
		DZ.DCL.962-CHG	电池连接线 Power cable	70mm*91x9 红蓝帽线(带尼龙螺母)	1
		DZ.DCL.599-WSD	模组信号连接器端子线束 Module signal connector terminal wiring harness	双边带插头,长度: 180mm,51.2V50AH(新 BMU) Double-sided belt plug, length: 180mm, 51.2V50AH (new BMU)	1
		WJ.LSP.061-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M8*20 Outer hexagonal combination screws: GB/T 9074.17-1988_M8*20	2

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11.4.3

LIBVIS12X50250

SKU NO	QTY	Material No.	Description	Spec	Qty
LIBVISSG250IEC	1	DZ.BMS.675-LLG	CBMS 主控箱 CBMS Control box	LUF16S10D250AD0AC(TUV)	1
		DZ.SJX.039-WSD	网线 Internet Cable	超六类线, 线长 1.5m, 两端加镀金水晶头 1500 mm Gold-plated crystal heads at both ends	1
		DZ.DCL.947-CHG	电池连接线 Power cable	70mm×1350x9 一端红帽线 一端压端子 SC70-8 (带尼龙螺母) 接正极 70mm×1350x9 One end of the red cap wire, one end of the crimp terminal SC70-8 (with nylon nut) connected to the positive electrode	1
		DZ.DCL.948-CHG	电池连接线 Power cable	70mm×470x9 一端红帽线 一端压端子 SC70-8 (带尼龙螺母) 接正极 70mm×470x9 One end of the red cap wire, one end of the crimp terminal SC70-8 (with nylon nut) connected to the positive electrode	1
		DZ.DCL.949-CHG	电池连接线 Power cable	70mm×230x9 一端红帽线 一端压端子 SC70-8 (带尼龙螺母) 接中线 70mm×230x9 One end of the red cap wire, one end of the crimp terminal SC70-8 (with nylon nut) connected to the neutral wire	1
		DZ.DCL.950-CHG	电池连接线 Power cable	70mm×1100x9 一端灰帽线 一端压端子 SC70-8 (带尼龙螺母) 接中线 70mm×1100x9 gray cap wire at one end, crimp terminal SC70-8 (with nylon nut) at one end to the neutral wire	1
		DZ.DCL.951-CHG	电池连接线 Power cable	70mm×450x9 一端蓝帽线 一端压端子 SC70-8 (带尼龙螺母) 接负极 70mm×450x9 One end blue cap wire, one end crimp terminal SC70-8 (with nylon nut) connected to the negative pole	1
		DZ.DCL.952-CHG	电池连接线 Power cable	70mm×600x9 一端蓝帽线 一端压端子 SC70-8 (带尼龙螺母) 接负极 70mm×600x9 blue cap wire on one end, crimp terminal SC70-8 (with nylon nut) on the other end to the negative pole	1

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		WJ.DXL.011-KNT	50Ah 中线接线盒 Neutral junction box	塑胶+五金注塑成型 尺寸: 81.6x80.2x50.5mm 颜色: 灰色 Plastic + metal injection molding Size: 81.6x80.2x50.5mm Color: gray	1
		DZ.DLQ.034-HTG	底座 Base	防火 ABS/71*57*34mm/料厚 2mm/黑色/固定孔 M8 Fireproof ABS/71*57*34mm/material thickness 2mm/black/fixing hole M8	4
		DZ.DLQ.032-HTG	上护盖 Upper cover	防火 ABS/81*57*23mm/料厚 2mm/黑色 Fireproof ABS/81*57*23mm/material thickness 2mm/black	4
		DZ.BXS.015-ETG	保险丝 FUSE	170M17xx-25-315A	2
		WJ.LSP.254-FYG	螺丝 screw	带螺纹有效距离不锈钢 M4*12mm 十字盘头弹垫一体螺杆(国标) Effective distance with thread stainless steel M4*12mm cross pan head spring washer integrated screw (GB)	8
		WJ.LSP.256-FYG	底座固定螺丝 Base fixing screws	M8*16 (塑料螺丝) M8*16 (plastic screw)	6
		WJ.DPL.048-FYG	垫片 Gasket	PVC M8*16*1	6
		WJ.DZL.299-TLC	端子 Terminal	铜鼻子 SC70-8 镀锡 Copper nose SC70-8 tin plated	3
		SJ.BHG.109-RHD	端子保护套 Terminal protection cover	红色 100mm2 Red 100mm2	1
		SJ.BHG.110-RHD	端子保护套 Terminal protection cover	黑色 100mm2 Black 100mm2	1
		SJ.BHG.141-RHD	端子保护套 Terminal protection cover	灰色 100mm2 Gray 100mm2	1
		DZ.DYX.076-AHD	CBMS 供电线 CBMS power supply cable	两端母头 500mm (白色) 500mm female at both ends (white)	1
		DZ.DYX.077-AHD	CBMS 供电线 CBMS power supply cable	三通 185mm, 出线 500mm (白色) Tee 185mm, outlet wire 500mm (white)	1

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		DZ.DYX.072-AHD	CBMS 供电线 CBMS power supply cable	两端母头 500mm 500mm female at both ends	1
		DZ.DYX.073-AHD	CBMS 供电线 CBMS power supply cable	三通 185mm Three terminal	1
		WJ.LSP.325-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M8*15 Outer hexagon combination screws: GB/T 9074.17-1988_M8*15	1
		WJ.LSP.061-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M8*20 Outer hexagonal combination screws: GB/T 9074.17-1988_M8*20	10
			User Manual	REVO USER Manual	1
LIBVISRAC50AH2000	1	WJ.JGL.166-HHZ	电池机柜 Cabinet	施耐德标准机柜/512V50AH/600x1000x2000/带屏幕/带防尘网/镀锌板结构/可装熔断器/RAL9003 光面/带 接地铜排/带卡板 12Module Schneider standard cabinet/512V50AH/600x1000x2000/with screen/with dust-proof net/galvanized sheet structure/installable fuse/RAL9003 smooth surface/with grounding copper bar/with card board 12Module	1
LIBVISM050	12	DC.051.050-PT039C	51.2V50AH	51.2V50AH (MODULE-V02)	1
		DZ.DCL.962-CHG	电池连接线 Power cable	70mm*91x9 红蓝帽线(带尼龙螺母)	1
		DZ.DCL.599-WSD	模组信号连接器端子线束 Module signal connector terminal wiring harness	双边带插头,长度: 180mm,51.2V50AH(新 BMU) Double-sided belt plug, length: 180mm, 51.2V50AH (new BMU)	1
		WJ.LSP.061-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M8*20 Outer hexagonal combination screws: GB/T 9074.17-1988_M8*20	2

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11.4.4

LIBVIS8X100630

SKU NO	QTY	Material No.	Description	Spec	Qty
LIBVISSG250IEC	1	DZ.BMS.676-LLG	CBMS 主控箱 CBMS Control box	LUF16S10D500AD0AC(TUV)	1
		DZ.SJX.039-WSD	网线 Internet Cable	超六类线, 线长 1.5m, 两端加镀金水晶头 1500 mm Gold-plated crystal heads at both ends	1
		DZ.DCL.953-CHG	电池连接线 Power cable	120mm×1650×10.5 一端红帽线一端压 SC120-10 端子(带尼龙螺母)接正极 120mm×1650×10.5 One end of the red cap wire, one end of the SC120-10 terminal (with nylon nut) is connected to the positive electrode	1
		DZ.DCL.959-CHG	电池连接线 Power cable	120mm×500×10.5 一端红帽线一端压 SC120-10 端子(带尼龙螺母)接正极 120mm×750×10.5 One end of the red cap wire and one end of the SC120-10 terminal (with nylon nut) is connected to the positive electrode	1
		DZ.DCL.955-CHG	电池连接线 Power cable	120mm×260×10.5 一端红帽线一端压 SC120-10 端子(带尼龙螺母)接中线 120mm×260×10.5 One end of the red cap wire and one end of the SC120-10 terminal (with nylon nut) is connected to the neutral wire	1
		DZ.DCL.960-CHG	电池连接线 Power cable	120mm×1250×10.5 一端灰帽线一端压 SC120-10 端子(带尼龙螺母)接中线 120mm×1450×10.5 One end of the red cap wire and one end of the SC120-10 terminal (with nylon nut) is connected to the neutral wire	1
		DZ.DCL.957-CHG	电池连接线 Power cable	120mm×900×10.5 一端蓝帽线一端压 SC120-10 端子(带尼龙螺母)接负极 120mm×900×10.5 One end of the blue cap wire, one end of the SC120-10 terminal (with nylon nut) is connected to the negative electrode	1
		DZ.DCL.961-CHG	电池连接线 Power cable	120mm×650×10.5 一端蓝帽线一端压 SC120-10 端子(带尼龙螺母)接负极 120mm×1050×10.5 One end of the blue cap wire and one end of the SC120-10 terminal (with nylon nut) is connected to the negative electrode	1

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		WJ.DXL012-KNT	100AH 中线接线盒 Neutral junction box	塑胶+五金注塑成型 尺寸: 85.6x80.2x56.5mm 颜色: 灰色 Plastic + metal injection molding Size: 85.6x80.2x56.5mm Color: gray	1
		DZ.DLQ.033-HTG	底座 Base	防火 ABS/71*57*34mm/料厚 2mm/黑色/固定孔 M10 Fireproof ABS/71*57*34mm/material thickness 2mm/black/fixing hole M10	4
		DZ.DLQ.032-HTG	上护盖 Upon cover	防火 ABS/81*57*23mm/料厚 2mm/黑色 Fireproof ABS/81*57*23mm/material thickness 2mm/black	4
		DZ.BXS.016-ETG	保险丝 Fuse	1250 DIN43653 -50-1400A	2
		WJ.LSP.254-FYG	螺丝 screw	带螺纹有效距离不锈钢 M4*12mm 十字盘头弹垫一体螺杆(国标) Effective distance with thread stainless steel M4*12mm cross pan head spring washer integrated screw (GB)	8
		WJ.LSP.256-FYG	底座固定螺丝 Base fixing screws	M8*16 (塑料螺丝)	6
		WJ.DZL.300-TLC	端子 Terminal	SC185-10 镀锡 SC185-10 tin plated	3
		SJ.BHG.107-RHD	端子保护套 Terminal protection cover	红色 185mm ² Red 185mm ²	1
		SJ.BHG.108-RHD	端子保护套 Terminal protection cover	黑色 185mm ² Black 185mm ²	1
		SJ.BHG.142-RHD	端子保护套 Terminal protection cover	灰色 185mm ² Gray 185mm ²	1
		DZ.DYX.076-AHD	CBMS 供电线 CBMS power supply cable	两端母头 500mm (白色) 500mm female at both ends (white)	1
		DZ.DYX.077-AHD	CBMS 供电线 CBMS power supply cable	三通 185mm, 出线 500mm (白色) Tee 185mm, outlet wire 500mm (white)	1
		DZ.DYX.072-AHD	CBMS 供电线 CBMS power supply cable	两端母头 500mm 500mm female at both ends	1

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		DZ.DYX.073-AHD	CBMS 供电线 CBMS power supply cable	三通 185mm Three terminal	1
		WJ.LSP.324-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M10*20 Outer hexagonal combination screws: GB/T 9074.17-1988_M10*20	1
		WJ.LSP.170-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M10*25 Outer hexagon combination screw: GB/T 9074.17-1988_M10*25	9
			User Manual	REVO USER Manual	1
LIBVISRAC100AH2000	1	WJ.JGL.073-HHZ	电池机柜 Cabinet	施耐德标准机柜/512V50AH/600x1000x2000/带屏幕/带防尘网/镀锌板结构/可装熔断器/RAL9003 光面/带接地铜排/带卡板 12Module Schneider standard cabinet/512V50AH/600x1000x2000/with screen/with dust-proof net/galvanized sheet structure/installable fuse/RAL9003 smooth surface/with grounding copper bar/with card board 12Module	1
LIBVISM0D100	8	DC.051.050-PT039C	51.2V50AH	51.2V100AH (MODULE-V02)	1
		DZ.DCL.962-CHG	电池连接线 Power cable	120mm*143x10.5 红蓝帽线(带尼龙螺母) 120mm*143x10.5 red and blue cap wire (with nylon nut)	1
		DZ.DCL.599-WSD	模组信号连接器端子线束 Module signal connector terminal wiring harness	双边带插头,长度: 180mm,51.2V100AH(新 BMU) Double-sided belt plug, length: 180mm, 51.2V100AH (new BMU)	1
		WJ.LSP.061-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M10*25 Outer hexagonal combination screws: GB/T 9074.17-1988_M10*25	2

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SKU NO	QTY	Material No.	Description	Spec	Qty
LIBVISSG250IEC	1	DZ.BMS.676-LLG	CBMS 主控箱 CBMS Control box	LUF16S10D500AD0AC(TUV)	1
		DZ.SJX.039-WSD	网线 Internet Cable	超六类线, 线长 1.5m, 两端加镀金水晶头 1500 mm Gold-plated crystal heads at both ends	1
		DZ.DCL.953-CHG	电池连接线 Power cable	120mm*1650x10.5 一端红帽线一端压 SC120-10 端子(带尼龙螺母)接正极 120mm*1650x10.5 One end of the red cap wire, one end of the SC120-10 terminal (with nylon nut) is connected to the positive electrode	1
		DZ.DCL.959-CHG	电池连接线 Power cable	120mm*500x10.5 一端红帽线一端压 SC120-10 端子(带尼龙螺母)接正极 120mm*750x10.5 One end of the red cap wire and one end of the SC120-10 terminal (with nylon nut) is connected to the positive electrode	1
		DZ.DCL.955-CHG	电池连接线 Power cable	120mm*260x10.5 一端红帽线一端压 SC120-10 端子(带尼龙螺母)接中线 120mm*260x10.5 One end of the red cap wire and one end of the SC120-10 terminal (with nylon nut) is connected to the neutral wire	1
		DZ.DCL.960-CHG	电池连接线 Power cable	120mm*1250x10.5 一端灰帽线一端压 SC120-10 端子(带尼龙螺母)接中线 120mm*1450x10.5 One end of the red cap wire and one end of the SC120-10 terminal (with nylon nut) is connected to the neutral wire	1
		DZ.DCL.957-CHG	电池连接线 Power cable	120mm*900x10.5 一端蓝帽线一端压 SC120-10 端子(带尼龙螺母)接负极 120mm*900x10.5 One end of the blue cap wire, one end of the SC120-10 terminal (with nylon nut) is connected to the negative electrode	1
		DZ.DCL.961-CHG	电池连接线 Power cable	120mm*650x10.5 一端蓝帽线一端压 SC120-10 端子(带尼龙螺母)接负极 120mm*1050x10.5 One end of the blue cap wire and one end of the SC120-10 terminal (with nylon nut) connected to the negative electrode	1

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		WJ.DXL.012-KNT	100AH 中线接线盒 Neutral junction box	塑胶+五金注塑成型 尺寸: 85.6x80.2x56.5mm 颜色: 灰色 Plastic + metal injection molding Size: 85.6x80.2x56.5mm Color: gray	1
		DZ.DLQ.033-HTG	底座 Base	防火 ABS/71*57*34mm/料厚 2mm/黑色/固定孔 M10 Fireproof ABS/71*57*34mm/material thickness 2mm/black/fixing hole M10	4
		DZ.DLQ.032-HTG	上护盖 Upon cover	防火 ABS/81*57*23mm/料厚 2mm/黑色 Fireproof ABS/81*57*23mm/material thickness 2mm/black	4
		DZ.BXS.016-ETG	保险丝 Fuse	1250 DIN43653 -50-1400A	2
		WJ.LSP.254-FYG	螺丝 screw	带螺纹有效距离不锈钢 M4*12mm 十字盘头弹垫一体螺杆国标 Effective distance with thread stainless steel M4*12mm cross pan head spring washer integrated screw (GB)	8
		WJ.LSP.256-FYG	底座固定螺丝 Base fixing screws	M8*16 (塑料螺丝)	6
		WJ.DZL.300-TLC	端子 Terminal	SC185-10 镀锡 SC185-10 tin plated	3
		SJ.BHG.107-RHD	端子保护套 Terminal protection cover	红色 185mm2 Red 185mm2	1
		SJ.BHG.108-RHD	端子保护套 Terminal protection cover	黑色 185mm2 Black 185mm2	1
		SJ.BHG.142-RHD	端子保护套 Terminal protection cover	灰色 185mm2 Gray 185mm2	1
		DZ.DYX.076-AHD	CBMS 供电线 CBMS power supply cable	两端母头 500mm (白色) 500mm female at both ends (white)	1
		DZ.DYX.077-AHD	CBMS 供电线 CBMS power supply cable	三通 185mm, 出线 500mm (白色) Tee 185mm, outlet wire 500mm (white)	1
		DZ.DYX.072-AHD	CBMS 供电线 CBMS power supply cable	两端母头 500mm 500mm female at both ends	1

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		DZ.DYX.073-AHD	CBMS 供电线 CBMS power supply cable	三通 185mm Three terminal	1
		WJ.LSP.324-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M10*20 Outer hexagonal combination screws: GB/T 9074.17-1988_M10*20	1
		WJ.LSP.170-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M10*25 Outer hexagon combination screw: GB/T 9074.17-1988_M10*25	11
			User Manual	REVO USER Manual	1
LIBVISRAC100A H2000	1	WJ.JGL.073-HHZ	电池机柜 Cabinet	施耐德标准机柜/512V50AH/600x1000x2000/带屏幕/带防尘网/镀锌板结构/可装熔断器/RAL9003 光面/带接 地铜排/带卡板 12Module Schneider standard cabinet/512V50AH/600x1000x2000/with screen/with dust-proof net/galvanized sheet structure/installable fuse/RAL9003 smooth surface/with grounding copper bar/with card board 12Module	1
LIBVISM0D100	8	DC.051.050-PT039 C	51.2V50AH	51.2V100AH (MODULE-V02)	1
		DZ.DCL.962-CHG	电池连接线 Power cable	120mm*143x10.5 红蓝帽线(带尼龙螺母) 120mm*143x10.5 red and blue cap wire (with nylon nut)	1
		DZ.DCL.599-WSD	模组信号连接器端子线束 Module signal connector terminal wiring harness	双边带插头,长度: 180mm,51.2V100AH(新 BMU) Double-sided belt plug, length: 180mm, 51.2V100AH (new BMU)	1
		WJ.LSP.061-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M10*25 Outer hexagonal combination screws: GB/T 9074.17-1988_M10*25	2

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SKU NO	Q'TY	Material No.	Description	Spec	Q'ty
LIBVISSG250IEC	1	DZ.BMS.676-LLG	CBMS 主控箱 CBMS Control box	LUF16S10D500AD0AC(TUV)	1
		DZ.SJX.039-WSD	网线 Internet Cable	超六类线, 线长 1.5m, 两端加镀金水晶头 1500 mm Gold-plated crystal heads at both ends	1
		DZ.DCL.953-CHG	电池连接线 Power cable	120mm*1650x10.5 一端红帽线一端压 SC120-10 端子(带尼龙螺母)接正极 120mm*1650x10.5 One end of the red cap wire, one end of the SC120-10 terminal (with nylon nut) is connected to the positive electrode	1
		DZ.DCL.959-CHG	电池连接线 Power cable	120mm*750x10.5 一端红帽线一端压 SC120-10 端子(带尼龙螺母)接正极 120mm*750x10.5 One end of the red cap wire and one end of the SC120-10 terminal (with nylon nut) is connected to the positive electrode	1
		DZ.DCL.955-CHG	电池连接线 Power cable	120mm*260x10.5 一端红帽线一端压 SC120-10 端子(带尼龙螺母)接中线 120mm*260x10.5 One end of the red cap wire and one end of the SC120-10 terminal (with nylon nut) is connected to the neutral wire	1
		DZ.DCL.960-CHG	电池连接线 Power cable	120mm*1450x10.5 一端灰帽线一端压 SC120-10 端子(带尼龙螺母)接中线 120mm*1450x10.5 One end of the red cap wire and one end of the SC120-10 terminal (with nylon nut) is connected to the neutral wire	1
		DZ.DCL.957-CHG	电池连接线 Power cable	120mm*900x10.5 一端蓝帽线一端压 SC120-10 端子(带尼龙螺母)接负极 120mm*900x10.5 One end of the blue cap wire, one end of the SC120-10 terminal (with nylon nut) is connected to the negative electrode	1
		DZ.DCL.961-CHG	电池连接线 Power cable	120mm*1050x10.5 一端蓝帽线一端压 SC120-10 端子(带尼龙螺母)接负极 120mm*1050x10.5 One end of the blue cap wire and one end of the SC120-10 terminal (with nylon nut) connected to the negative electrode	1

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		WJ.DXL.012-KNT	100AH 中线接线盒 Neutral junction box	塑胶+五金注塑成型 尺寸: 85.6x80.2x56.5mm 颜色: 灰色 Plastic + metal injection molding Size: 85.6x80.2x56.5mm Color: gray	1
		DZ.DLQ.033-HTG	底座 Base	防火 ABS/71*57*34mm/料厚 2mm/黑色/固定孔 M10 Fireproof ABS/71*57*34mm/material thickness 2mm/black/fixing hole M10	4
		DZ.DLQ.032-HTG	上护盖 Upon cover	防火 ABS/81*57*23mm/料厚 2mm/黑色 Fireproof ABS/81*57*23mm/material thickness 2mm/black	4
		DZ.BXS.016-ETG	保险丝 Fuse	1250 DIN43653 -50-1400A	2
		WJ.LSP.254-FYG	螺丝 screw	带螺纹有效距离不锈钢 M4*12mm 十字盘头弹垫一体螺杆国标 Effective distance with thread stainless steel M4*12mm cross pan head spring washer integrated screw (GB)	8
		WJ.LSP.256-FYG	底座固定螺丝 Base fixing screws	M8*16 (塑料螺丝)	6
		WJ.DZL.300-TLC	端子 Terminal	SC185-10 镀锡 SC185-10 tin plated	3
		SJ.BHG.107-RHD	端子保护套 Terminal protection cover	红色 185mm ² Red 185mm ²	1
		SJ.BHG.108-RHD	端子保护套 Terminal protection cover	黑色 185mm ² Black 185mm ²	1
		SJ.BHG.142-RHD	端子保护套 Terminal protection cover	灰色 185mm ² Gray 185mm ²	1
		DZ.DYX.076-AHD	CBMS 供电线 CBMS power supply cable	两端母头 500mm (白色) 500mm female at both ends (white)	1
		DZ.DYX.077-AHD	CBMS 供电线 CBMS power supply cable	三通 185mm, 出线 500mm (白色) Tee 185mm, outlet wire 500mm (white)	1
		DZ.DYX.072-AHD	CBMS 供电线 CBMS power supply cable	两端母头 500mm 500mm female at both ends	1

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		DZ.DYX.073-AHD	CBMS 供电线 CBMS power supply cable	三通 185mm Three terminal	1
		WJ.LSP.324-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M10*20 Outer hexagonal combination screws: GB/T 9074.17-1988_M10*20	1
		WJ.LSP.170-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M10*25 Outer hexagon combination screw: GB/T 9074.17-1988_M10*25	13
			User Manual	REVO USER Manual	1
LIBVISRAC100AH2300	1	WJ.JGL.165-HHZ	电池机柜 Cabinet	施耐德标准机柜/512V50AH/600x1000x2000/带屏幕/带防尘网/镀锌板结构/可装熔断器/RAL9003 光面/带接 地铜排/带卡板 12Module Schneider standard cabinet/512V50AH/600x1000x2000/with screen/with dust-proof net/galvanized sheet structure/installable fuse/RAL9003 smooth surface/with grounding copper bar/with card board 12Module	1
LIBVISM0100	8	DC.051.050-PT039C	51.2V50AH	51.2V100AH (MODULE-V02)	1
		DZ.DCL.962-CHG	电池连接线 Power cable	120mm*143x10.5 红蓝帽线(带尼龙螺母) 120mm*143x10.5 red and blue cap wire (with nylon nut)	1
		DZ.DCL.599-WSD	模组信号连接器端子线束 Module signal connector terminal wiring harness	双边带插头,长度: 180mm,51.2V100AH(新 BMU) Double-sided belt plug, length: 180mm, 51.2V100AH (new BMU)	1
		WJ.LSP.061-FYG	组合螺丝 Combination screw	外六角组合螺丝:GB/T 9074.17-1988_M10*25 Outer hexagonal combination screws: GB/T 9074.17-1988_M10*25	2

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