

# ChargeX

## MAINTENANCE MANUAL



# OVERVIEW

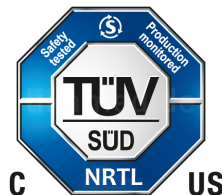
# ChargeX

ChargeX is an integrated EV charger providing 240kW DC output with two connectors. Power flexible distributed to two connectors controlled by algorithm realizes intelligently EV charging. It supports high resolution large LCD touchscreen with audio function and cable management system which provide better user experience.



ChargeX	
<b>Models</b>	PQ-SEC1000 (80) (120) (160) (240)
<b>Rated Power</b>	DC: 80kW to 240kW
<b>Input Voltage (v)</b>	480AC
<b>Dimensions (mm)</b>	W (800-918) x D 750 x H 2000

STANDARDS & CERTIFICATIONS	
<b>Standards</b>	UL2231, UL2202, ISO 15118, DIN70121
<b>Certifications</b>	cTUVus



## IMPORTANT SAFETY INSTRUCTIONS

### SAVE THESE INSTRUCTIONS

**WARNING:**

This manual contains important instructions for installation and use. When install and use, always follow basic precautions, including the following.

### Notice

Before maintenance, please ensure that the front-end power supply has been switched off. And before another power-on test, please ensure that the failure has been eliminated and the electric circuit has been connected properly.

Personnel who maintain the equipment, including operators, trained personnel and professionals, should possess the local national required qualifications in special operations such as high-voltage operations, working at heights, and operations of special equipment.

### Disclaimer

Power Q shall not be liable for personal electric shock, product damage, failure or defects for the following reasons:

- Unlicensed maintenance personnel or operators maintain the product without authorization, resulting in damage of the product.
- The product is not maintained regularly and properly according to the requirements of the maintenance manual, resulting in damage or failure of the product.
- The product is not maintained in accordance with local specifications and standards.
- Maintenance activities are not filed or reported to the equipment supplier cause product damage and failure.
- In the process of maintenance, the original design of the product is changed without authorization, resulting in damage or failure of the product.
- Product damage or failure is caused intentionally or by negligence in the process of maintenance.
- Product damage or failure is due to force majeure (such as a bad weather, natural disasters, etc.).
- Due to maintenance personnel not wearing protective gear, resulting in personal electric shock and equipment damage.
- The front-end power supply of the equipment has not been stopped before maintenance, resulting in personal electric shock and equipment damage;
- Maintenance while the failure of equipment is not identified, or the circuit is changed without consulting the supplier resulting in equipment damage.
- After maintenance, the door lock is not closed as required, resulting in damage to the insulation of the equipment caused by water or other foreign matters in the equipment.
- After maintenance, the device with a failure is not marked clearly and sent back to the supplier for analysis;
- After maintenance, the device with a failure is discarded carelessly, resulting in the absence of cause of failure.

## MOVING AND STORAGE INSTRUCTIONS

- If DC Fast Charger is to be stored after purchase, a dry and well-ventilated space with a temperature range of -40 °F (-40 °C) to 140 °F(60 °C) is recommended. The product cannot be put reversely.
- Do not store DC Fast Charger near flammable, explosive, or combustible materials.
- When DC Fast Charger is moved or transported, violent shocks, impacts or inversions should be avoided in case of damage.

## FOREWORD





### Reader

This document (this guide) is primarily intended for the following engineers:

- Technical Support Engineer
- Maintenance Engineer

## SYMBOL CONVENTIONS

The following symbols may appear in this document and their description are as follows.

SYMBOL	DESCRIPTION
	<b>DANGER</b> Dangerous Voltage. Dangerous voltages can cause death or injury.
	<b>WARNING</b> Hazard Warning. May cause equipment damage and personal injury.
	<b>WARNING</b> Heat warning. May cause scald when touch the special parts.
	<b>ATTENTION</b> Cause of Hazard. Failure to comply may result in equipment damage or functional failure.





**CATALOGUE**

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## 1-SAFETY INSTRUCTIONS

### 1.1 Warning and Danger

SYMBOL	SYMBOL WORD	DESCRIPTION
	<b>DANGER</b>	<p>Because some parts of the power system are at a high pressure during operation, the direct or indirect contacting with these components, such as contacting through wet things, can be fatal.</p> <p>The high-voltage line construction operation may cause fire or electric shock. The connecting area and the passing area of the AC cable must comply with the national regulations and specifications. Only those who have the ability to work at a high DC and high AC voltage can install and maintain the DC charger.</p> <p>It is strictly forbidden to do the on-site maintenance work in a bad weather.</p> <p>It is strictly forbidden to maintain when the equipment is live.</p>
	<b>WARNING</b>	<p>Special tools must be used in all kinds of operations at high DC and AC voltages.</p> <p>When handling the equipment by hands, wear protective gloves to prevent injuries caused by sharp objects.</p>
	<b>WARNING</b>	<p>Avoid touching specific parts of the charger (E.g., air outlet) to prevent high temperature scald.</p>
	<b>CAUTION</b>	<p>Please read the maintenance manual carefully before maintenance.</p> <p>Before maintenance, please wear personal protective tools to avoid injuries in the process. After maintenance, do not leave tools in the equipment to avoid the short circuit.</p> <p>The maintenance shall follow the local rules and regulations and meet the requirements of the station.</p>

## 1.2 Maintenance Instructions

- This product is high-power and high-voltage power equipment. Construction and maintenance personnel shall work with the operation certificate.
- In the maintenance of the equipment, the relevant construction standards and safety regulations in different places and states shall be strictly followed.
- The equipment is developed, manufactured, checked, filed and certified in accordance with the relevant safety standards. Therefore, the product will not cause property damage or endanger human health under normal circumstances if the instructions for the specified use and technical instructions for safety are followed.
- The instructions contained in this manual must be strictly observed. Otherwise, there may be a safety hazard or failure of the safety device. Although this manual explains the relevant safety instructions, note that safety specifications and accident prevention specifications for the corresponding usage must be complied with.
- In case of any problems and failures in the process of use, the user shall directly consult the supplier. In the warranty period, if he/she asks a third party or non-professional to maintain without authorization any safety consequences shall be borne by the user.
- Please strictly comply with the specifications formulated in this manual or by the station for regular and correct maintenance of the charger.
- Each maintenance shall be recorded, components with a failure shall be identified and, the failure description shall be prepared, and they shall be sent back to the manufacturer for analysis. Do not discard carelessly.
- Do not change the original design of the product without authorization during maintenance.
- Maintenance personnel shall properly wear protective equipment before entering the field to avoid personal electric shock and equipment damage.
- After maintenance, close and lock the door properly so that the insulation of the equipment will not be damaged due to water ingress or other foreign matters.
- There is no lamp inside the charger. The installation and maintenance personnel must bring their own lighting equipment.
- Charger is high-power and high-current equipment with a fatal dangerous voltage. Do not repair and maintain it when it is running.
- Even when all the switches of the charger have been disconnected, the copper bar of the charging line still has a dangerous voltage. During the maintenance of the equipment, it is necessary to turn off the upper switch of the charger, hang the repair sign, and check whether there is a dangerous voltage with an instrument to ensure that the charger is completely disconnected from the power grid.
- It is strictly forbidden to do the maintenance work in a bad weather such as thunderstorms.
- It is strictly forbidden to do the power-on test before troubleshooting.
- Maintenance personnel shall wear professional protective tools, such as protective clothing, insulation boots and insulation gloves, to avoid injuries in the process of maintenance.

**2-MAINTENANCE**

**2.1 Maintenance when the charger is not used for a long time**

When the charger is not used, the charger shall be in a power-off state and the unnecessary load of the charger shall be reduced, so as to increase the service life of the charger.

**2.2 Charger maintenance items and checking cycle**

Checking item	Checking cycle	Checking content	Treatment method
Front-end distribution box	Three months	Each item is checked in accordance with the maintenance manual of the distribution box. (Note: The maintenance manual of the distribution box is provided by the supplier of distribution box.)	Maintenance and repairing
Appearance of equipment	One year	Check the appearance of the cabinet for any stains; Check whether the cabinet shell is flat or has any rust, scratch, deformation, paint damage and other defects.	Cleaning and paint repair
Interior of charger	Every year	Check whether the interior of the cabinet is clean and tidy, and whether the air inlet and outlet of the power module are filled with dust. The dust shall be timely removed to prevent the failure of the power module.	Cleaning
Lightning protector	Every year	Check whether the module is loose and the status indicator is normal. If the status indicator changes to red, the dry contact NC-COM of alarm becomes open or the NC-COM becomes shortcircuited, the surge protector has failed.	Replacement
Fan	Half a year	Whether the fan is working properly.	Maintenance and repairing
Signal lamp	Half a year	Check whether the signal lamp is burned out, whether it is fixed tightly or not, and whether it is in a normal state.	Maintenance and repairing
Components	Half a year	Check whether components of the electric circuit have discoloration, deformation and other phenomena, whether the fixation is loose, and whether the connection of the components is burned out. If any abnormality is found, parts shall be replaced in a timely manner.	Maintenance and repairing
Charging connector	Half a year	Check whether the fixing clasp of the charging connector is damaged, whether the needle of the charging connector is oxidized and discolored or obviously worn and deformed, whether any foreign body has entered the hole on the head of the connector, and whether the charging connector cable is damaged.	Cleaning and repairing
Power module	Half a year	Check that the power module is normal and there is a trouble-free display on the module screen.	Maintenance and repairing



Checking item	Checking cycle	Checking content	Treatment method
Human machine interface	Half a year	Check whether the screen of the display screen is cracked, whether the display is normal, check whether it can operate normally.	Maintenance and repairing
Emergency stop function	Half a year	Press the emergency stop button to check whether the emergency stop button is working normally, and reset the emergency stop button after normal check.	Maintenance and repairing
Equipment grounding	Half a year	Check whether the ground wire of the equipment housing is loose or detached.	Maintenance and repairing
System grounding	Half a year	Check whether the grounding cable inside the cabinet is loose and fall off, whether the grounding sign is complete and obvious, and whether there is any loss and damage.	Maintenance and repairing
Slot	Every year	Check whether the slot is fixed firmly, whether the cover plate is complete and tight.	Maintenance and repairing
Breaker	Monthly	Check whether the signal lamp is burned out, whether it is fixed tightly or not, and whether it is in a normal state.	Maintenance and repairing
Components	Half a year	Press the TEST button of the circuit breaker to see whether the circuit breaker can trip properly.	Maintenance and repairing
Electric cable	Every year	Check whether the cable and switch are connected closely, whether the grounding is reliable, whether the power cable is blackened, deformed or damaged, and whether the sealing measures at the incoming cable of the cabinet are intact.	Repairing and replacement of cables
Force majeure factor	Immediately	In case of flood, earthquake, impact, switch trip and other events, the whole machine shall be checked immediately.	Maintenance and repairing

### 3-REPLACEMENT OF COMMON DEVICES



**WARNING:**

Please ensure the power is cut before the replacement!

### 3.1 Components Replacement

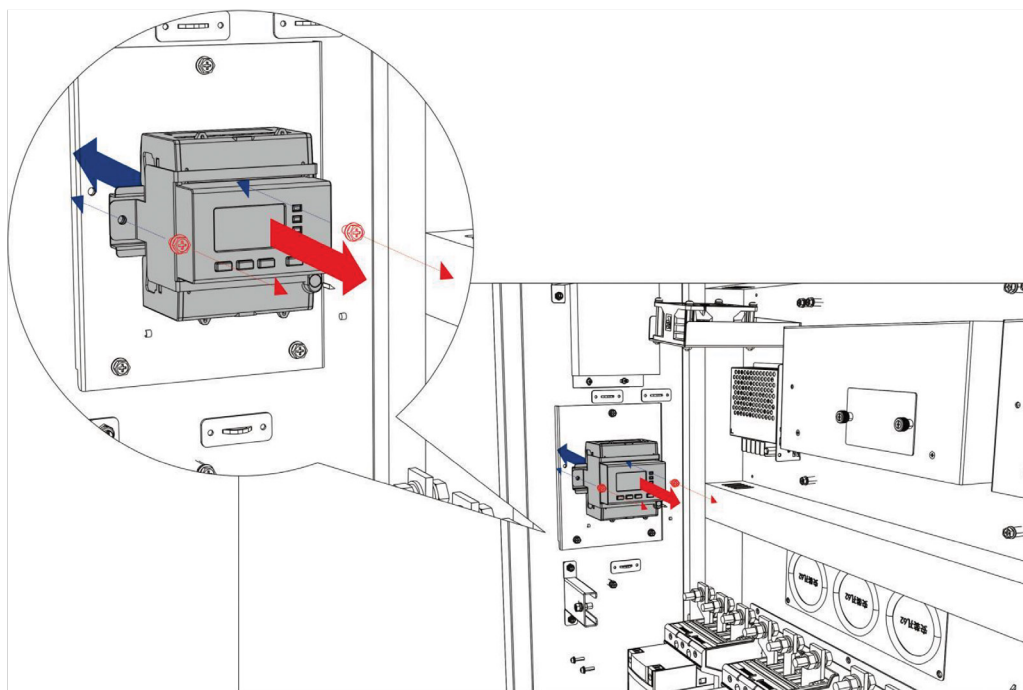
NOTE: All device replacement schematics show red arrows for removal direction and blue arrows for installation direction.

1. Electricity meter

Tools required: Phillips screwdriver, small slotted screwdriver

Replacement Steps:

- 1-Remove the connection cables of the meter.
- 2-Unscrew the two screws on the meter fixing plate, remove the meter fixing plate, and use a small slotted screwdriver to remove the meter from the guide rail by using the meter's lower snap.
- 3-Replace the meter with a new one, the method is the opposite of removing the meter.

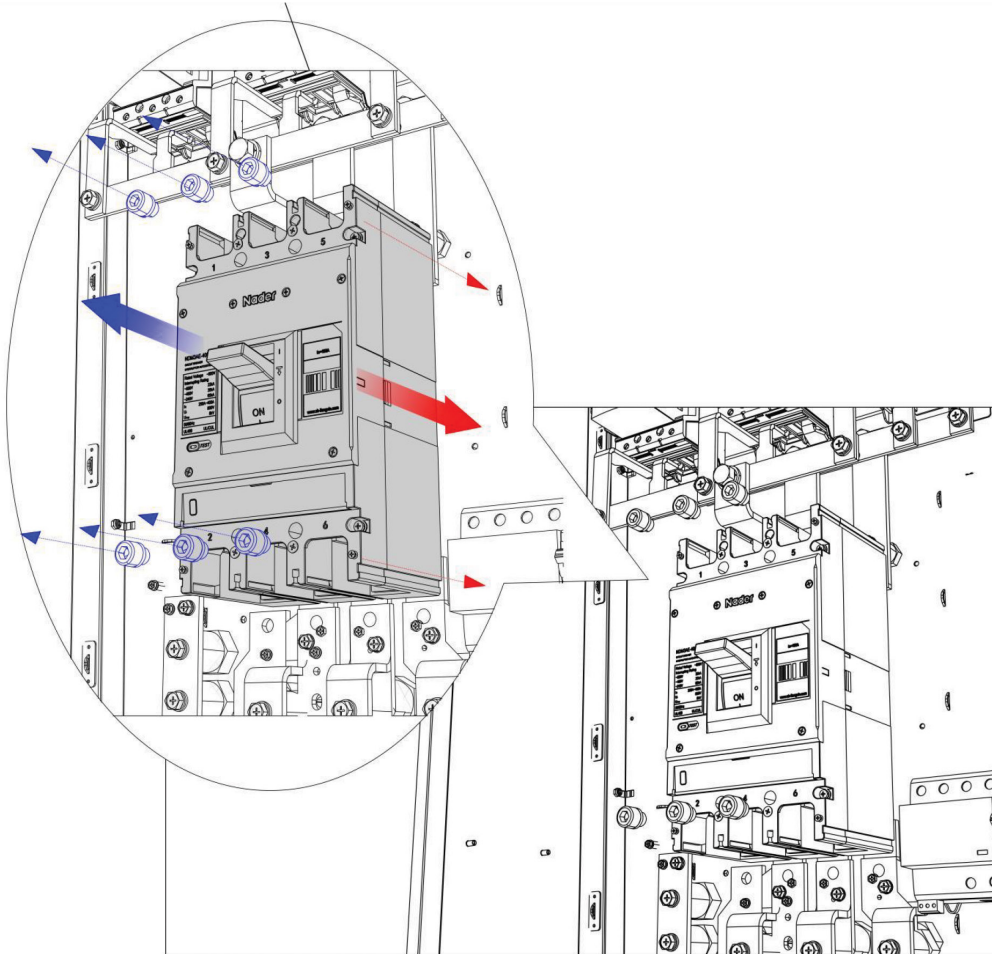


2. Main circuit breaker

Tools required: Screwdriver and socket wrench

Replacement steps:

- 1-Remove the screws in the fixed bus bar of the circuit breaker by using an socket wrench;
- 2-Remove the input and output bus bar with a socket wrench;
- 3-Use a screwdriver to remove the fixing screw at the upper and lower ends of the main circuit breaker. And then the main circuit breaker can be removed.
- 4-Replace with the new main circuit breaker in the opposite way to assemble it.

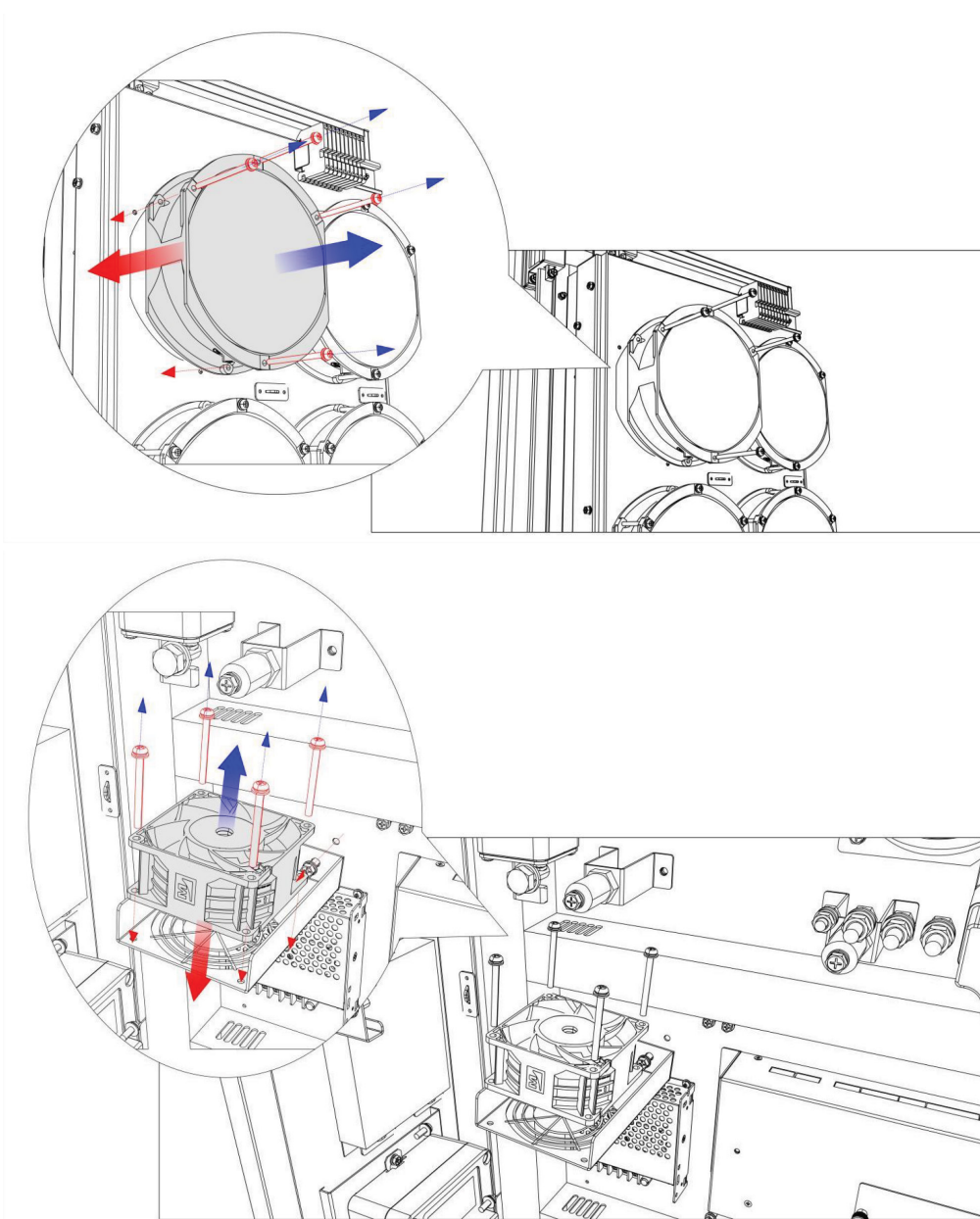


### 3. Cooling fan

Tools required: screwdriver

Replacement steps:

- 1-Separate the terminals of plug-in connectors of the cables of the cooling fan;
- 2-Use a screwdriver to remove the four fixing screws of the fan. And then the fan can be removed;
- 3-Replace with a new cooling fan in the opposite way to assemble it.

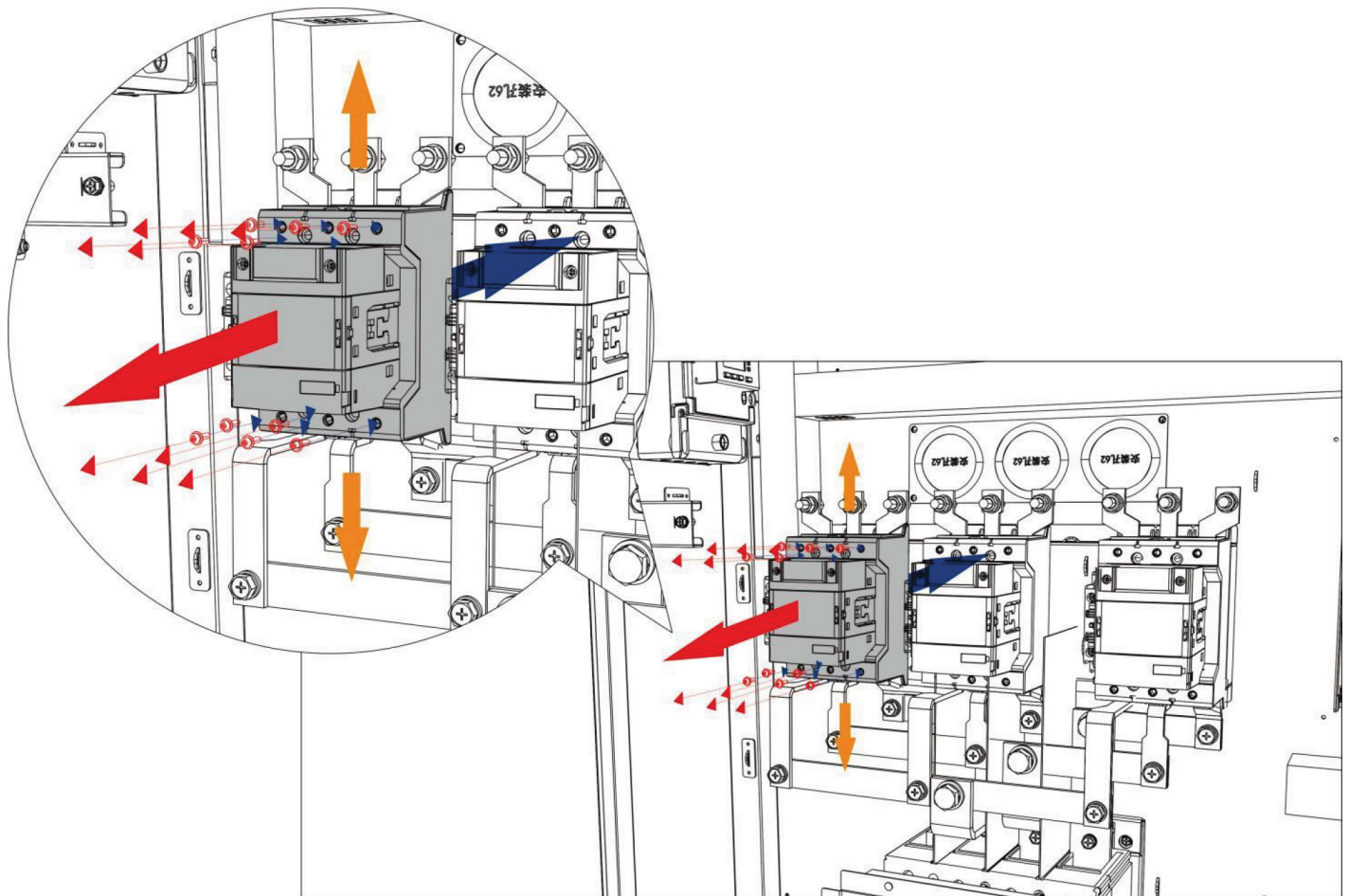


#### 4. AC contactor

Tools required: Socket wrench

Replacement steps:

- 1-Use a socket wrench to unscrew six screws fixing the bus bar in the AC contactor. Note that these screws cannot be taken out and can only be unscrewed;
- 2-Use a socket wrench to remove the fixing screw between the bus bar and the insulation column, and move the bus bar out of the AC contactor;
- 3-Use a socket wrench to remove the fixing screws in the upper right and lower left corners of the AC contactor. And then the AC contactor can be removed.
- 4-Replace with a new AC contactor in the opposite way to assemble it.

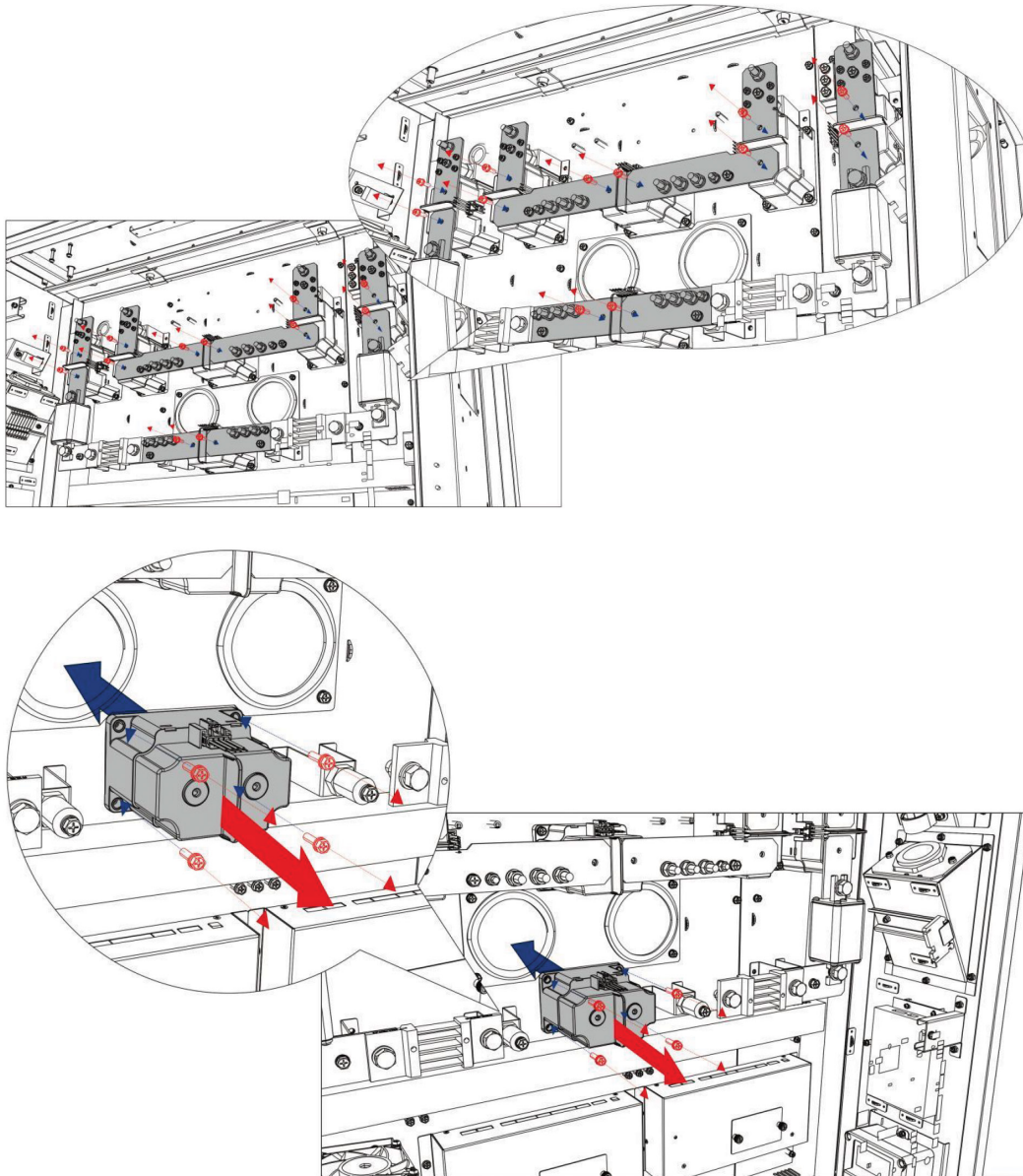


#### 5. DC contactor

Tools required: screwdriver and socket wrench

Replacement steps:

- 1-Use a socket wrench to remove the bus bar on the DC contactor;
- 2-Remove the white signal line terminal on the side of the DC contactor;
- 3-Use the screwdriver to remove the fixing screw in the upper right corner and lower left corner of the DC contactor. And then the DC contactor can be removed.
- 4-Replace with a new DC contactor in the opposite way to assemble it.



## 6. Fuse

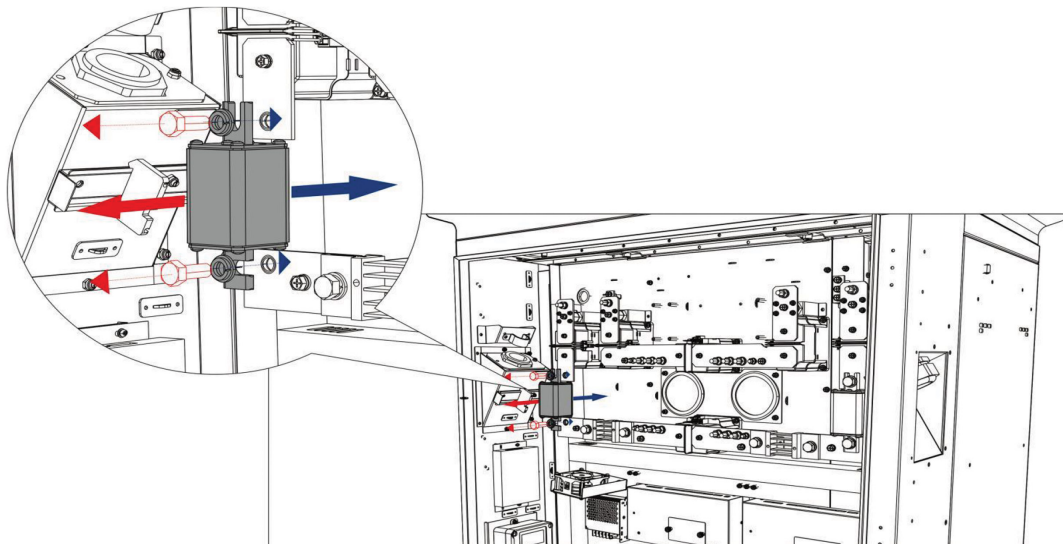
Tools required: Socket wrench

Replacement steps:

1-Remove the fuse connection cable.

2-Remove the screw from the fuse.

3-Replace the fuse with a new one, in the opposite way to assemble it.

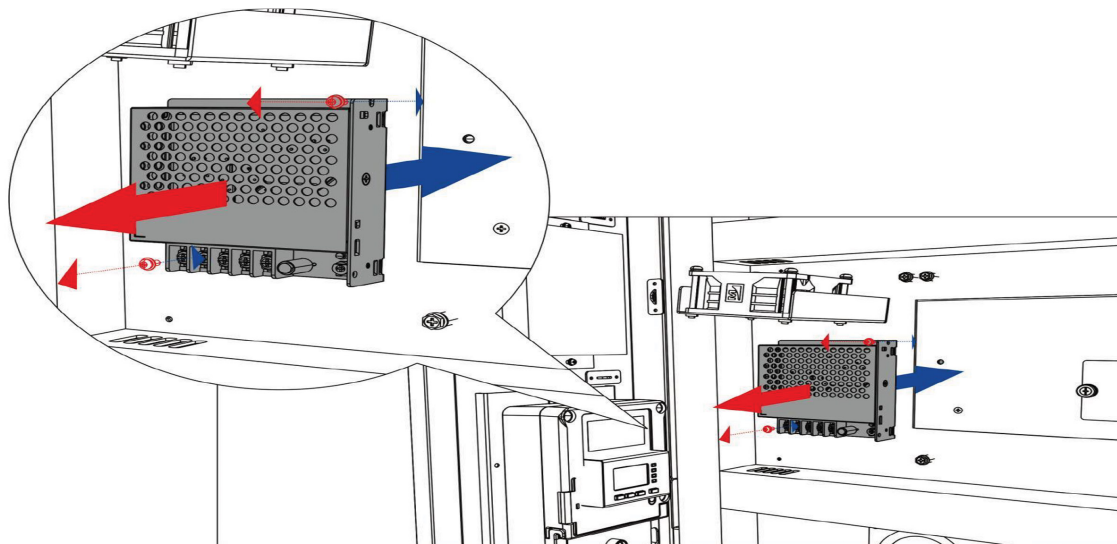


## 7. System operating power supply

Tools required: screwdriver

Replacement steps:

- 1-Remove the connection cable from the system power supply
- 2-First remove the four screws securing the sheet metal parts on the system power supply to the cabinet.
- 3-Remove the auxiliary source and the four screws holding the sheet metal parts
- 4-Replace the auxiliary power supply with a new one, in the opposite way to assemble the system power supply.

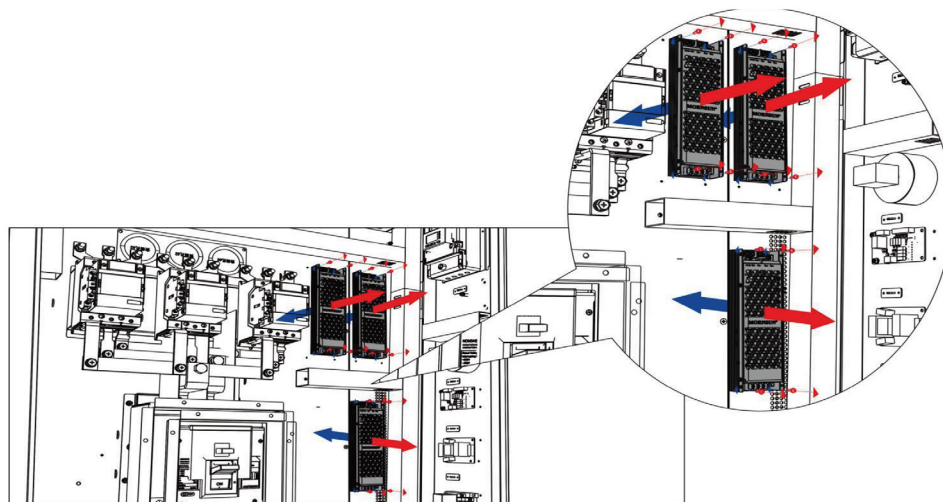


## 8. Fan power supply

Tools required: screwdriver

Replacement steps:

- 1-Remove the connection cable from the fan power supply.
- 2-Remove the two screws from the fan power supply.
- 3-Replace the fan power with a new one, in the opposite way to assemble it.

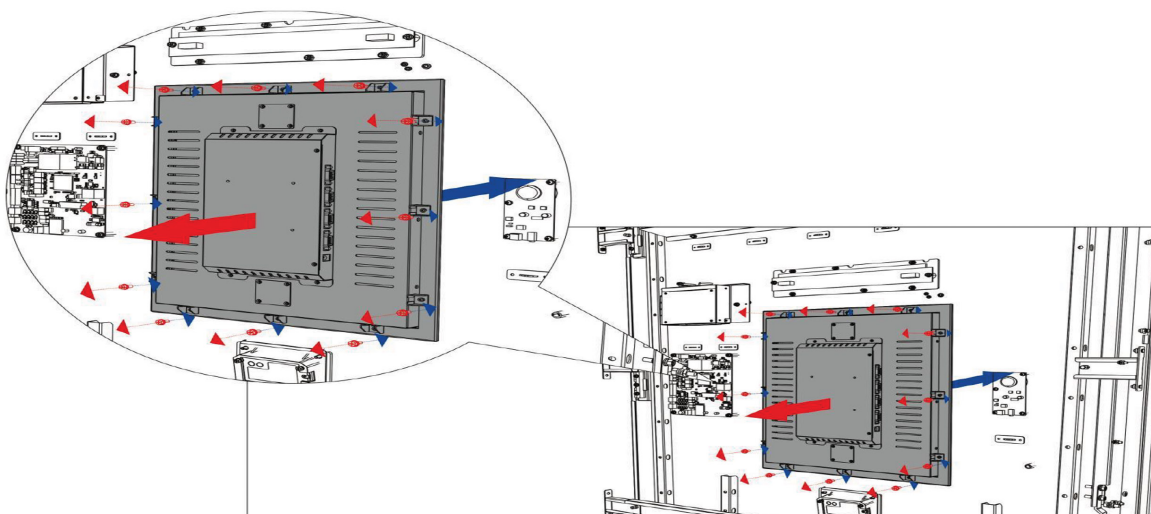


## 9. Display screen

Tools required: screwdriver

Replacement steps:

- 1-Remove the connection cable from the display screen.
- 2-Hold the display screen from the front and remove the twelve screws and the clips from the back.
- 3-Remove the display from the front.
- 4-Replace the display screen with a new one, in the opposite way to assemble it.



## 10. Connector line

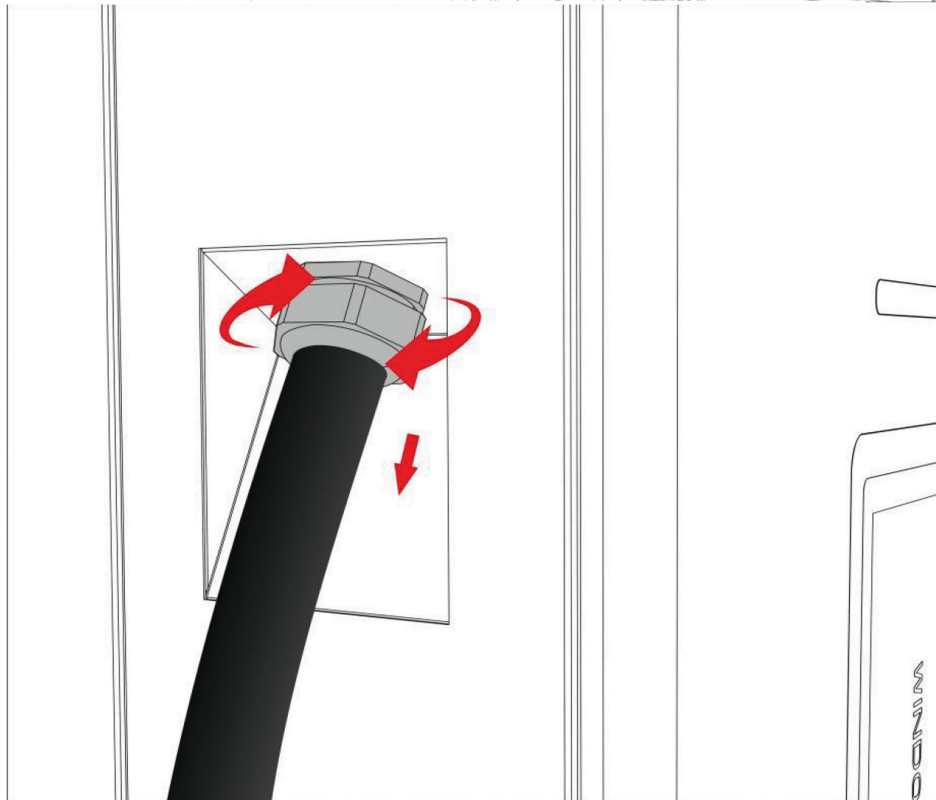
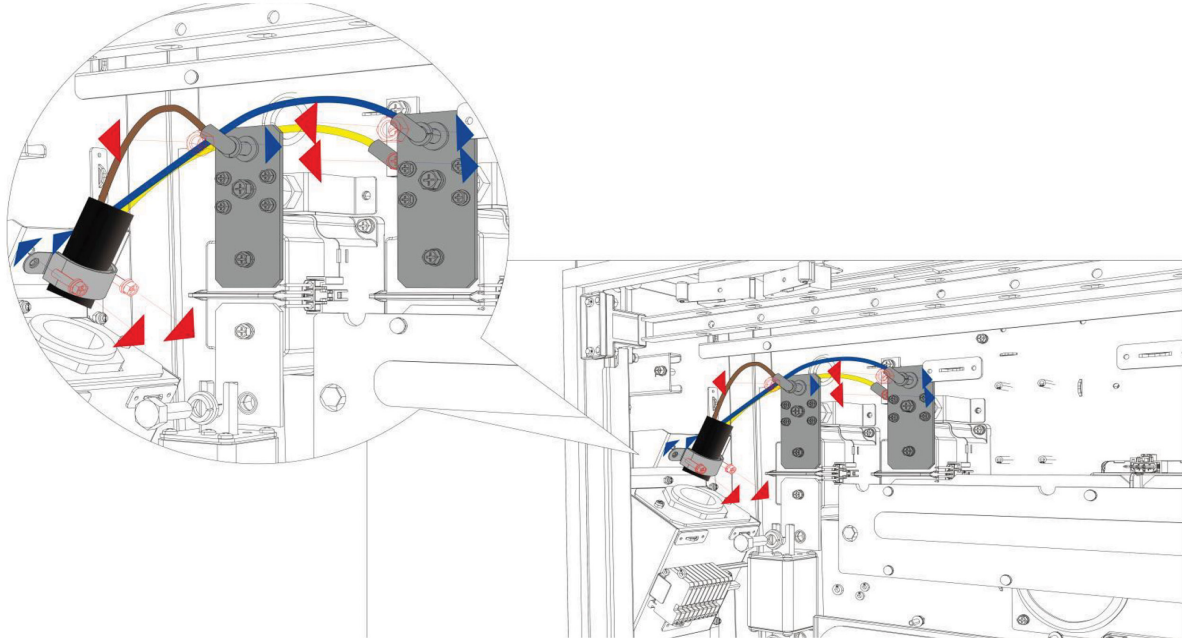
Tools required: spanner, screwdriver

Replacement steps:

- 1-Remove the connecting cable of the connector line.
- 2-Remove the screws from the connector line terminals and the U-clips holding the connector line in place.
- 3-After loosening the PG head with a spanner and taking the connector line out, remove the PG head from the connector line
- 4-Replace the connector line with a new one, in the opposite way to assemble it.



# ChargeX

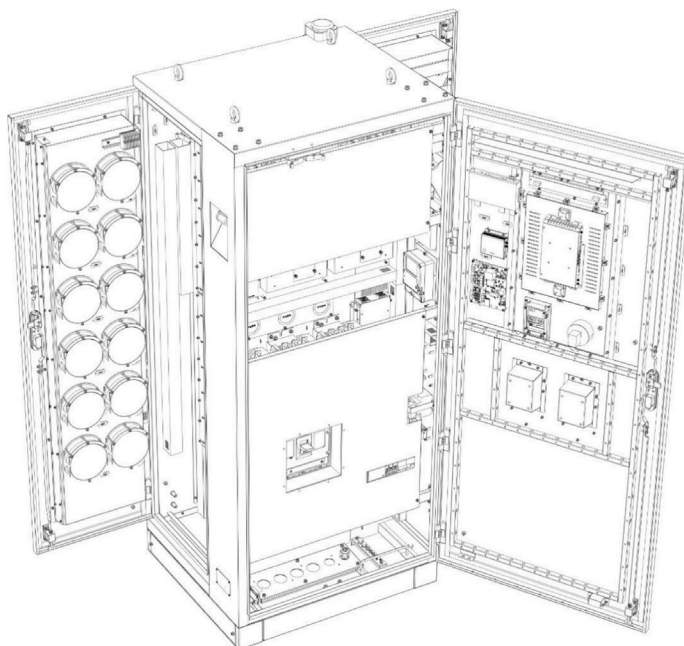


## 4-GUIDANCE FOR REPLACEMENT OF DUST FILTER

Tools required: screwdriver or electric tool and new dust filter.

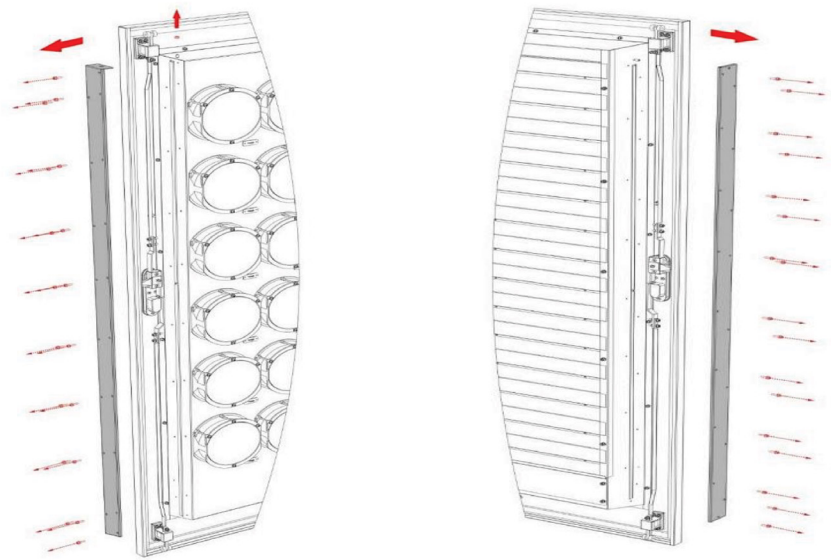
Replacement steps:

1-Turn off the power supply and open the left and right doors of the cabinet;

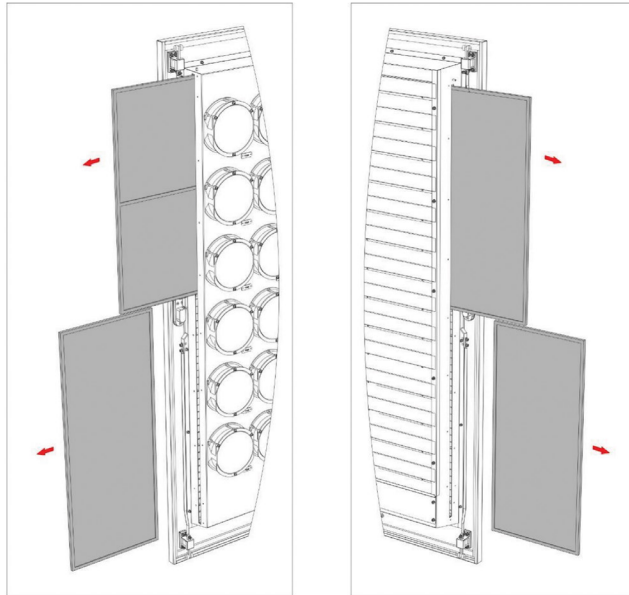


2-Remove the left and right cover plates and their installation screws M5/32 inch × 5/8 inch (M4×16) with an electric screwdriver.

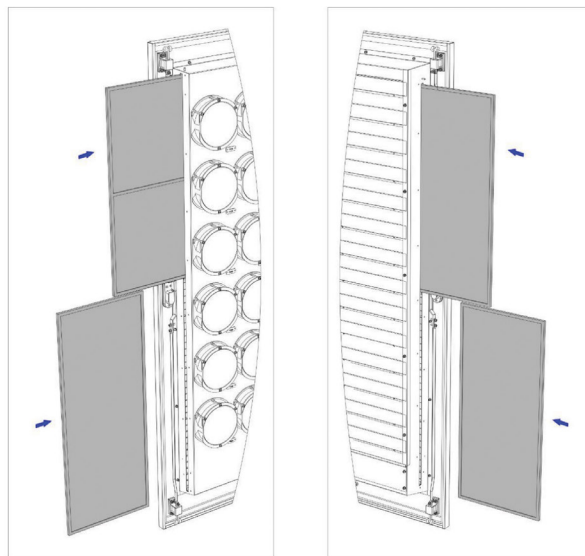
Note: The left cover plate shall be lifted up for about 25/32 inch (20mm), and then taken out. Do not lose the cover plate and installation screw. They will be used in future installation.



3-Use the drawing pipe of dust filter to draw out the old dust filter and scrap it;

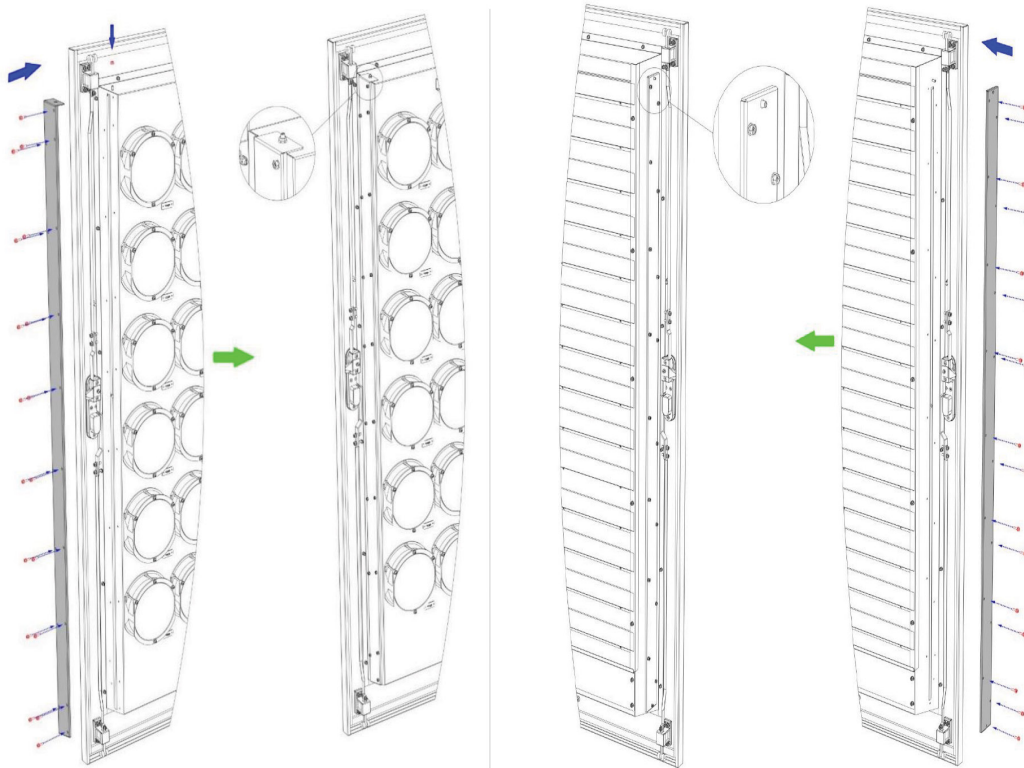


4-Insert the new dust filter with the same specification into the left and right side door respectively;  
Note: One end of the pull ring is kept outside for the next change



5-Install the side cover plate and lock the screw M5/32 inch × 5/8 inch (M4×16). The reference torque of screw tightening: 13.88 in-lbs (16kgf. cm);

NOTE: The top of the cover plate shall be hung first for installation of the left cover plate, as shown in the figure. And then install the screw.



6-The dust filter has been replaced.

## 5-COMMON TROUBLESHOOTING

### 5.1 Common Troubleshooting

No.	The Code	Content of failure	Cause of failure	Method of treatment
1	1	Scram failure.	1. Emergency stop is locked and has not been reset.	1. Check the reason why the emergency stop button is pressed. If there is a system fault, the station operation and maintenance personnel should reset the emergency stop button after removing the system fault. Emergency stop is locked and has not been reset.
2	3	The DC contactor is faulty.	1. DC contactor adhesion, refusal or misoperation. 2. The main contact is normal, feedback contact adhesion.	1. Check whether the contactor feedback and control cable wiring are correct. 2. If the DC contactor is faulty, replace the contactor.
3	4	The output fuse is faulty.	1. Fuse feedback line is abnormal. 2. Fuse is damaged.	1. Check whether the fuse feedback line is normal. 2. Replace the test method, if the fuse is damaged, then replace.
4	7	The AC surge protector is faulty.	1. The surge protection device is damaged.	1. Check whether the SPD fault window turns red. If it turns red, the SPD is damaged and needs to be replaced.
5	8	Insulation fault.	1. The DC loop is shortcircuited. 2. Insulation damage of sampling line or gun line.	1. Use insulation resistance meter to measure whether the insulation resistance between positive and negative DC circuit, positive to ground and negative to ground is normal. 2. Check whether the cable is damaged.
6	11	The charging pile overheats.	1. Dust accumulates in the air inlet and outlet dust filter. 2. The fan inside the charging pile is faulty.	1. Check whether the output current is abnormal. If yes, reset the output current threshold. 2. Check whether the liquid cooling system of the liquid cooling gun starts normally. If not, check the cause of the fault and report to the manufacturer for treatment.
7	32	Entrance guard fault.	1. The door is not properly closed.	1. Close the door again and lock it.
8	36	The charging gun overheats.	1. The charging current exceeds the rated value of the charging gun. 2. The liquid cooling system of liquid cooling gun is faulty.	1. Check whether the output current is abnormal. If yes, reset the output current threshold. 2. Check whether the liquid cooling system of the liquid cooling gun starts normally. If not, check the cause of the fault and report to the manufacturer for treatment.
9	39	The intermediate contactor is faulty.	1. The intermediate contactor appears adhesion, refusal or misoperation. 2. The main contact is normal, feedback contact adhesion.	1. Check whether the contactor feedback and control cable wiring are correct. 2. If the contactor is faulty, replace the contactor.
10	41	The DC surge protection device is faulty.	1. The surge protection device is damaged.	1. Replace the surge protection device.

No.	The Code	Content of failure	Cause of failure	Method of treatment
11	46	Liquid level warning.	1. The liquid cooling liquid level of the liquid cooling pump is lower than the warning value.	1. Check whether there is coolant leakage in the liquid cooling system. 2. Confirm whether the coolant level is lower than the warning value. If so, add coolant.
12	47	Liquid level alarm.	1. The coolant level of the liquid cooling pump is lower than the alarm threshold.	1. Check whether there is coolant leakage in the liquid cooling system. 2. Check whether the coolant level is lower than the alarm value. If so, add the coolant.
13	48	Cooling system alarm.	1. The liquid cooling system is faulty.	1. Check whether the power supply of the liquid cooling system is normal. 2. Check whether the fan of the liquid cooling system is blocked or stopped. 3. Check whether there is coolant leakage in the liquid cooling system.
14	54	MCU Communication failure.	1. The line is abnormal. 2. The CCU address is incorrectly set. 3. CAN bus has poor antiinterference ability or bus matching resistance problems	1. Check whether the line is normal. 2. Check the CCU address and check whether the dip switch is correct. 3. Check whether the shielding layer of CAN line is effectively grounded.
15	56	Meter communication failure.	1. The communication line is abnormal. 2. The address, baud rate, check bit, stop bit and other Settings of the electricity meter are wrong. 3. Electricity meter failure.	1. Check whether the communication line between the electricity meter and the CCU mainboard is abnormal. 2. Check whether the address, baud rate, parity bit and stop bit of the meter are set correctly. 3. Replace the new electricity meter.
16	61	The heartbeat of the gun 1 timed out.	The CAN communication line between gun 1 and other guns is abnormal. 2. CAN bus has poor antiinterference ability or there are bus matching resistance problems.	1. Use a multimeter to check whether the CAN communication line between CCU terminals is abnormal and whether the shielding layer of the communication line is effectively grounded.
17	1000	The communication on the control board is abnormal.	1. The communication line is abnormal. 2. Check whether the CCU address is incorrectly set. 3. CAN bus has poor antiinterference ability or there are bus matching resistance problems.	1. Check whether the CAN communication line between MCU and CCU is properly connected and whether the shielding layer of the communication line is effectively grounded. 2. Check the CCU address and check whether the dip switch is correct. 3. If the MCU or CCU is damaged, replace it.
18		Offline.	1. Check whether the router has network or the signal of the site is weak. 2. Check whether the MCU network Settings are correct (local IP, subnet mask, gateway, pile number, domain name address). 3. Background exception.	1. Connect the laptop directly to the router to check whether there is a network connection. If there is no network connection, contact the local carrier. 2. If there is any problem with MCU network Settings, reset the correct parameters. 3. Contact the background to check the background status.

No.	The Code	Content of failure	Cause of failure	Method of treatment
19	203	Black screen.	1. Whether the access power of MCU is less than 12V. 2. The power cable between MCU and display screen is loose. 3. The display screen is damaged.	1. Auxiliary power supply is damaged or wiring is wrong, check wiring, if wiring is correct, replace the auxiliary power supply. 2. Tighten the power cable between MCU and display screen. 3. If the display is damaged, replace it.

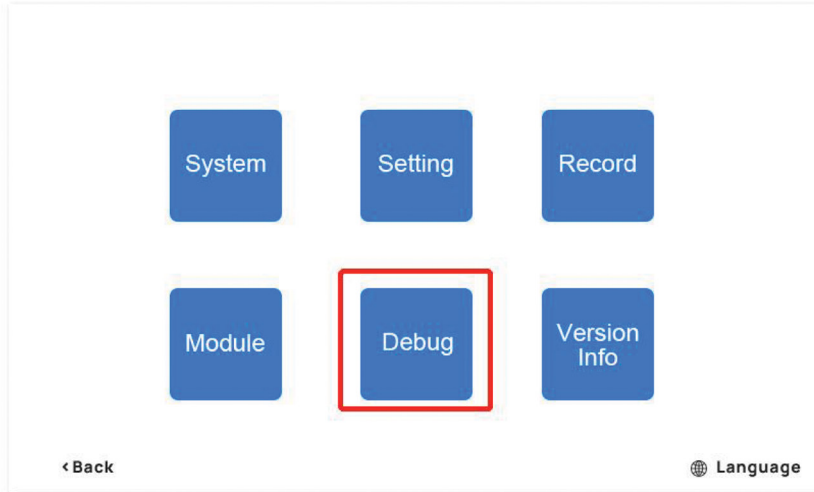
**NOTE:** If the above troubleshooting methods cannot solve the problem, please contact the local customer support.

## 6-INTERFACE DESCRIPTION

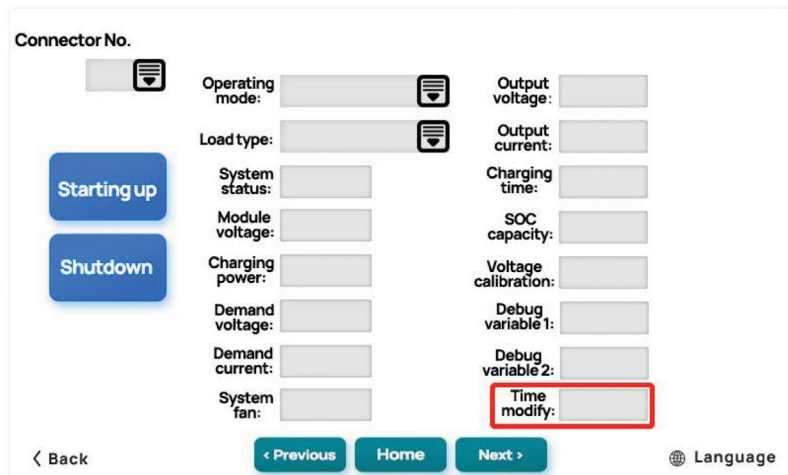
### 6.1 Common Settings

#### 6.1.1 Time zone settings

1-Click Debug to enter the debugging interface



2-Click Time Modify to set the Time zone





3-The setting rules are as follows:

Setting method:

The units digit is plus or minus 0 is plus or 1 is minus.

Tens and hundreds represent minutes.

Thousands and tens represent hours.

For example, 12001: need to subtract 12 hours 0 minutes to get the local time.

For example, 12000: Add 12 hours and 0 minutes to get the local time.

If the difference between the Local UTC time and the Beijing UTC time is 8:00, set this parameter to 8000.

If the Indian local time differs from UTC by 5:30, set 5300.

If the difference between Alaska local time and UTC is -9:00, set this parameter to 9001.

Countries UCT and time lag Query here: <https://time.123cha.com/full.html>

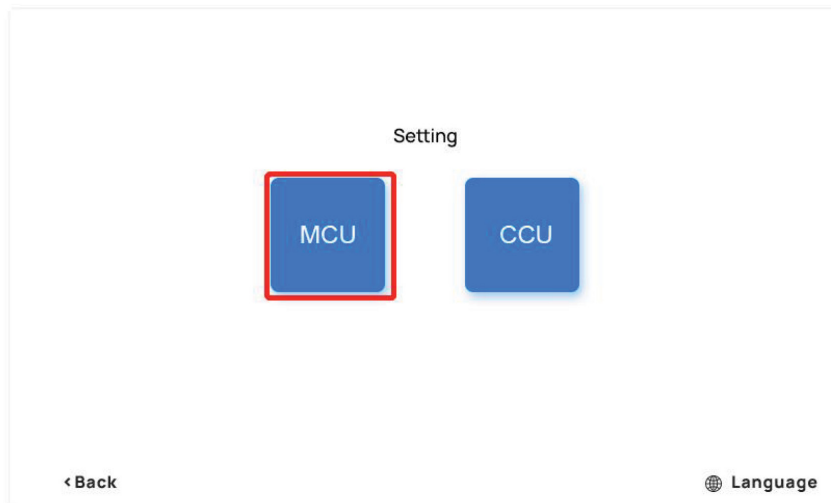
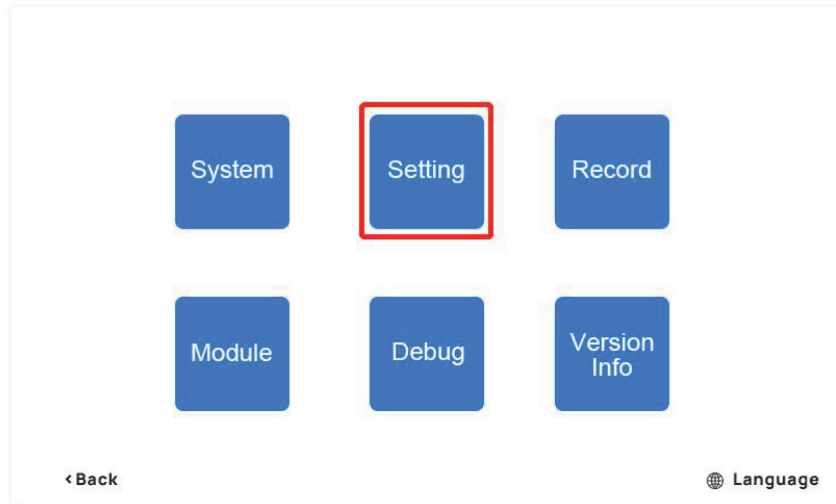
According to the European standard time zone method. TXT document, you can set the time zone as follows:

(1) Search sites

(2) Find the UTC + or - time and set it according to the European timezone method. TXT.

## 6.1.2 Double CCS settings

1-Click Setting-> MCU-> Feature



2-Set Duak-CCS Connector:

0:CCS2+CHA 1:CCS2+CCS2 2:CHA+CHA 3:CCS1+CCS2 4:CCS1+CCS1 5:CCS2+CCS1

Currently using CCS connector

Network	IP Address:	<input type="text"/>	Port Number:	<input type="text"/>
	Subnet Mask:	<input type="text"/>	Domain name connection:	<input type="text"/>
	Gateway Address:	<input type="text"/>	Network Type:	<input type="text"/>
Feature	MAC Address:	<input type="text"/>	SIM ICCID:	<input type="text"/>
	Server IP Address:	<input type="text"/>	Platform authentication:	<input type="text"/>
	Server domain name:	<input type="text"/>	Secret key:	<input type="text"/>

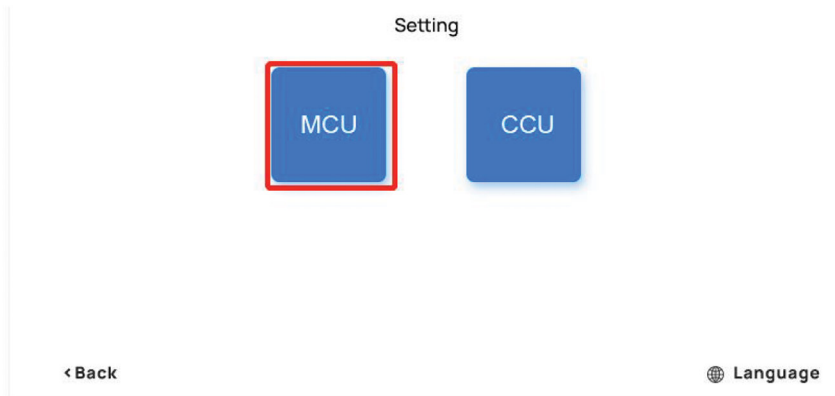
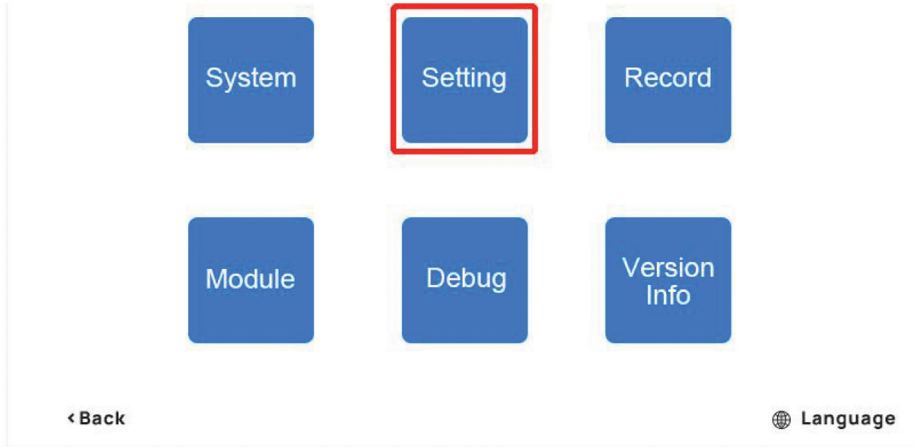
[Back](#) Language

Network	Charger Number:	<input type="text"/>	Priority mode:	<input type="text"/>
	System Time:	<input type="text"/>	Charging process:	<input type="text"/>
Feature	Administrator password:	<input type="text"/>	<input type="button" value="New password"/>	
	Offline charging password:	<input type="text"/>	<input type="button" value="Confirm password"/>	
	Service Hotline:	<input type="text"/>		
	Dual-CCS Connector:	<input type="text"/>	Billing type:	<input type="text"/>
	Boot Type:	<input type="text"/>	Project type:	<input type="text"/>
		Screen type:	<input type="text"/>	

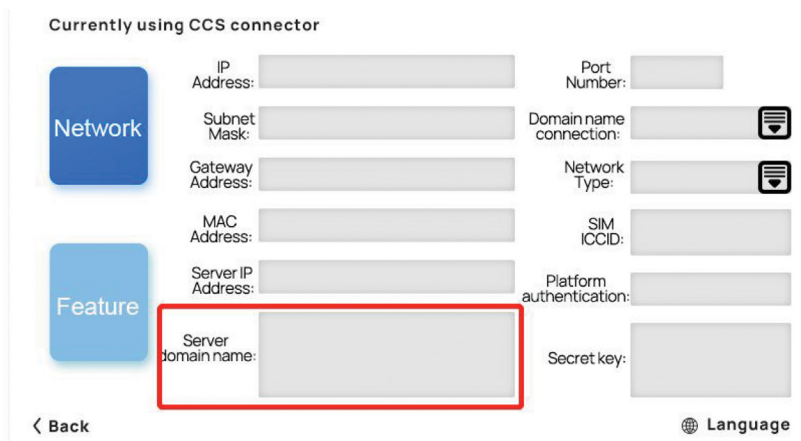
[Back](#) Language

## 6.1.3 URL settings

1-Click Setting-> MCU



2-Click Server Domain Name to set



## 6.1.4 Charging Mode settings

1-Click Setting-> MCU-> Feature

The screenshot shows a grid of menu items: System, Setting (highlighted with a red box), Record, Module, Debug, Version Info, MCU (highlighted with a red box), and CCU. Below this is the 'Setting' page with a 'Network' button and a 'Feature' button (highlighted with a red box). The 'Feature' section contains the following fields:

- IP Address: [input]
- Subnet Mask: [input]
- Gateway Address: [input]
- MAC Address: [input]
- Server IP Address: [input]
- Server domain name: [input]
- Port Number: [input]
- Domain name connection: [input]
- Network Type: [input]
- SIM ICCID: [input]
- Platform authentication: [input]
- Secret key: [input]

At the bottom left is a '< Back' button and at the bottom right is a 'Language' button with a globe icon.

2-Priority mode: Charging (Charging is preferred. If offline charging is required, set this mode.)  
 Authentication (Authentication is preferred.)

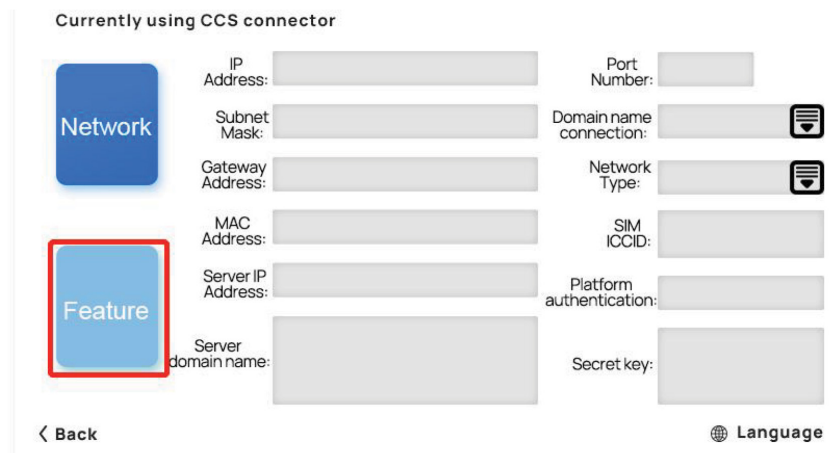
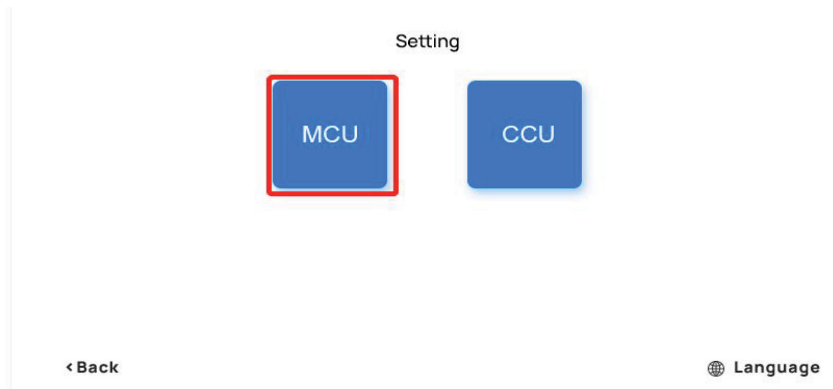
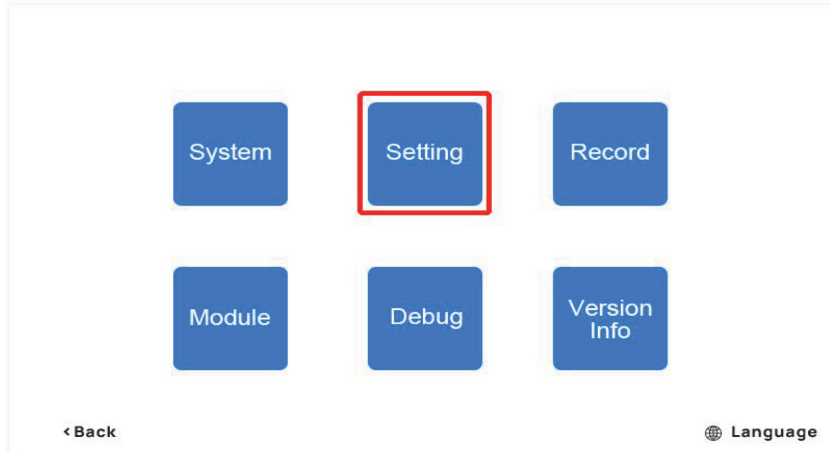
The screenshot shows the 'Priority mode' settings page. It features a 'Network' button and a 'Feature' button. The 'Priority mode' dropdown menu is open, showing 'Charging' and 'Authentication' options. Below the dropdown are 'New password' and 'Confirm password' buttons. The form includes the following fields:

- Charger Number: [input]
- System Time: [input]
- Administrator password: [input]
- Offline charging password: [input]
- Service Hotline: [input]
- Dual-CCS Connector: [input]
- Billing type: [input]

At the bottom left is a '< Back' button and at the bottom right is a 'Language' button with a globe icon.

## 6.1.5 Password settings

1-Click Setting-> MCU-> Feature



## 2-Set Offline charging password Password of charging. (Default 765432)

The screenshot shows a configuration page with two main sections: 'Network' and 'Feature'. The 'Network' section includes fields for 'Charger Number', 'System Time', 'Administrator password', and 'Offline charging password'. The 'Feature' section includes 'Service Hotline', 'Dual-CCS Connector', 'Boot Type', 'Project type', 'Priority mode', 'Charging process', and 'Billing type'. There are 'New password' and 'Confirm password' buttons. A red box highlights the 'Offline charging password' input field. At the bottom, there are 'Back' and 'Language' navigation options.

## 6.1.6 HPC function settings

### 1-Click Debug to enter the debugging interface

The screenshot shows a menu with six blue buttons: 'System', 'Setting', 'Record', 'Module', 'Debug', and 'Version Info'. The 'Debug' button is highlighted with a red box. At the bottom, there are 'Back' and 'Language' navigation options.

2-Click Next to enter the debug 1-2 interface

Connector No.

Operating mode:

Load type:

System status:

Module voltage:

Charging power:

Demand voltage:

Demand current:

System fan:

Output voltage:

Output current:

Charging time:

SOC capacity:

Voltage calibration:

Debug variable 1:

Debug variable 2:

Time modify:

Starting up

Shutdown

< Back  Home  Language

3-Click Next to enter the debug 2 interface

Insulation state:

Insulation V1+:

Insulation V1-:

Insulation V2+:

Insulation V2-:

Insulation positive resistance:

Insulation negative resistance:

< Back  Home  Language

4-Tap Debug Address5 and enter 389 to enable or disable the HPC function

Debug address 1:

Debug address 2:

Debug address 3:

Debug address 4:

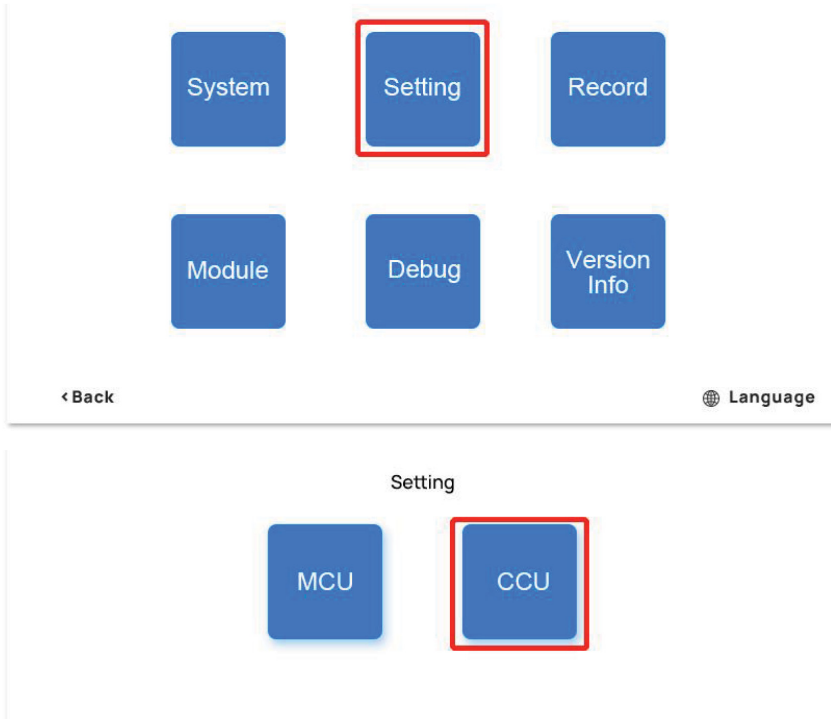
Debug address 5:

< Back  Home  Language

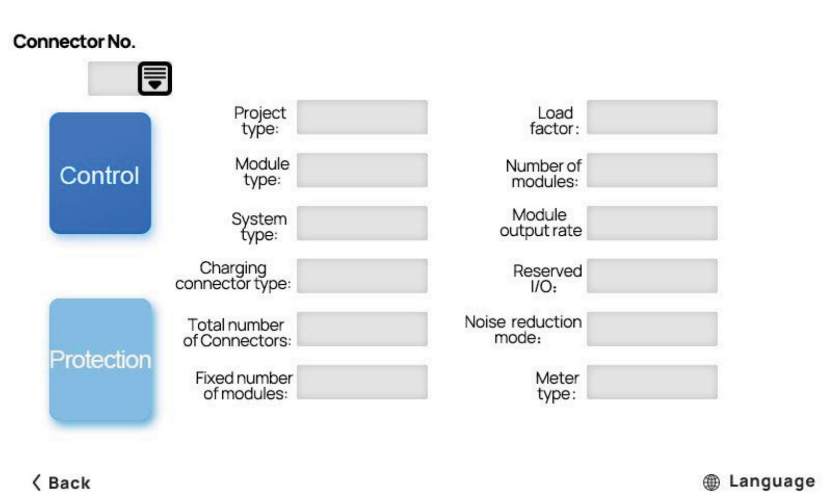


## 6.1.7 CCU settings

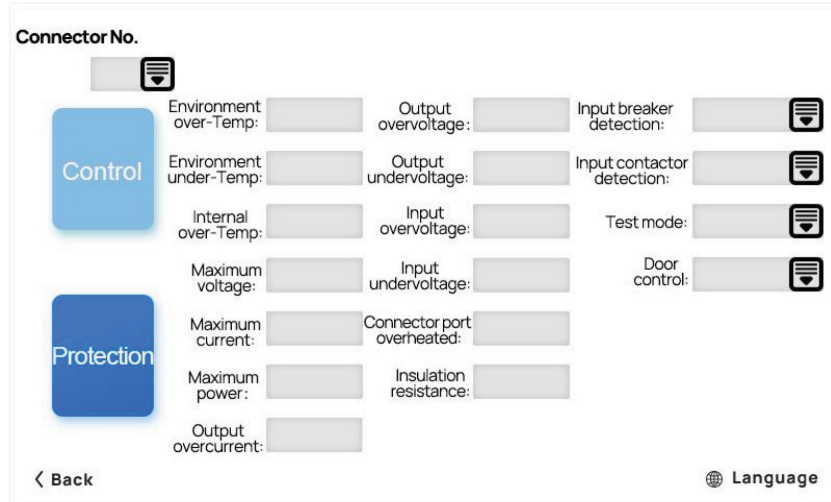
1-Go to Setting-> CCU



2-This screen is for CCU Settings



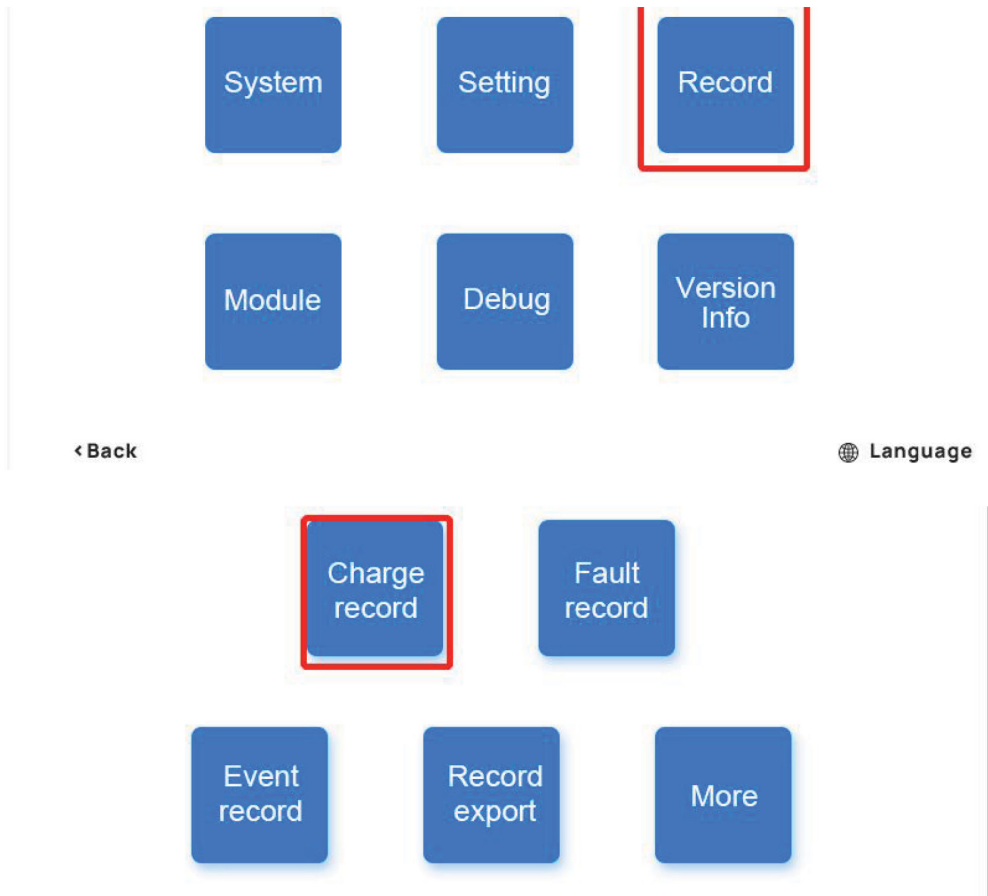
3-This screen is for CCU protection Settings



## 6.2 Common Query

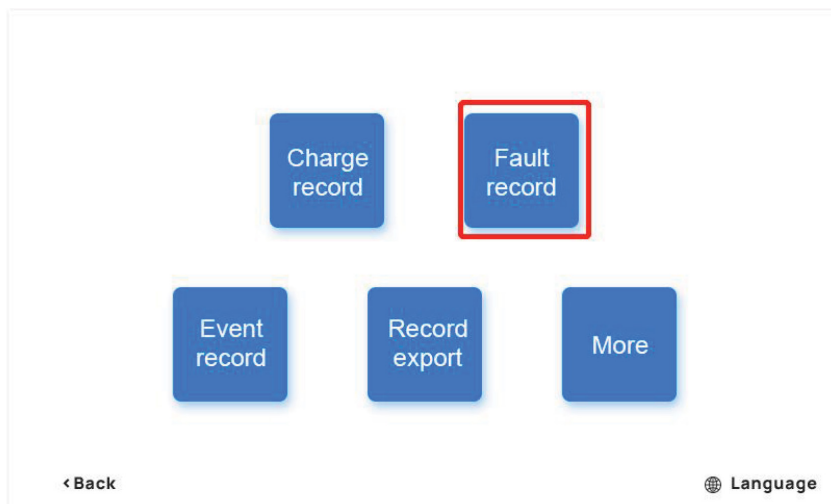
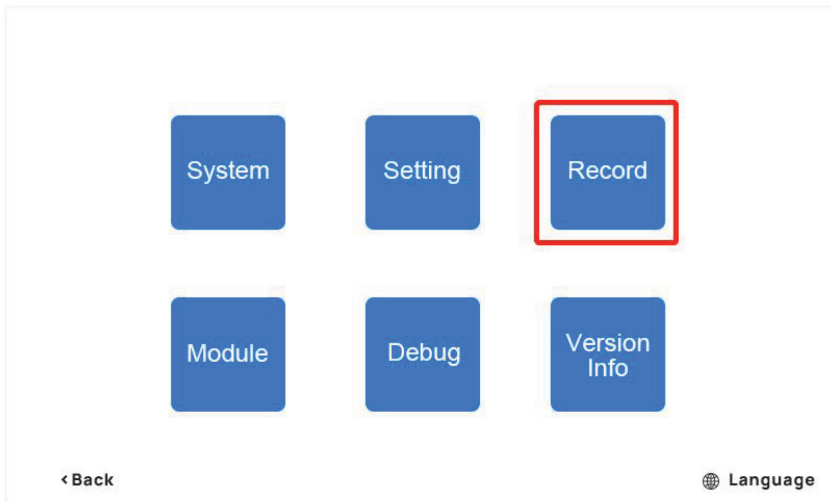
### 6.2.1 View charging record

1-Click Record-> Click Charge Record



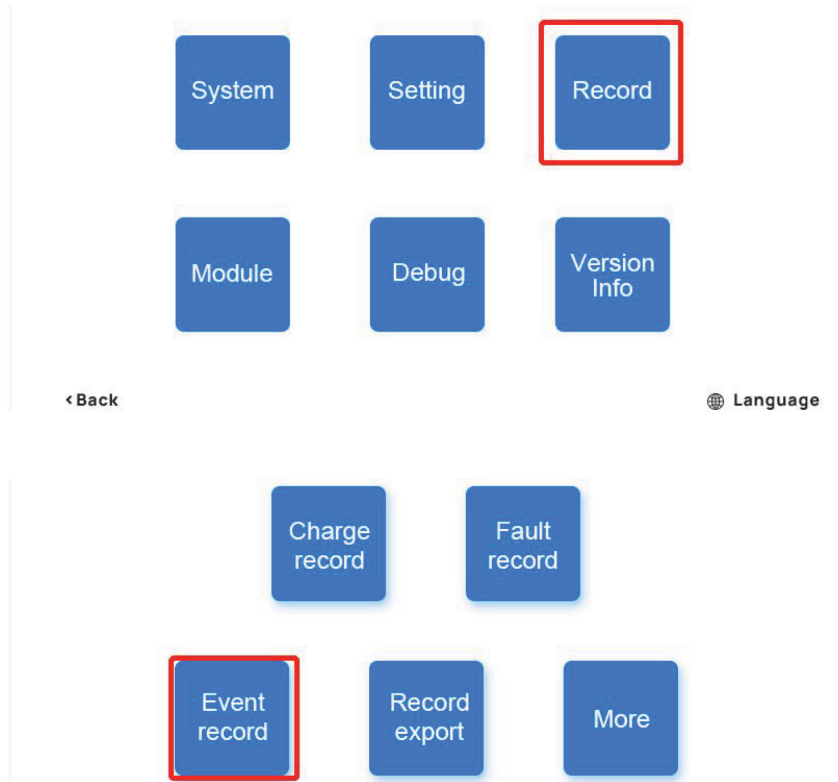
## 6.2.2 Viewing Alarm Records

1-Go to Record-> Go to Fault Record



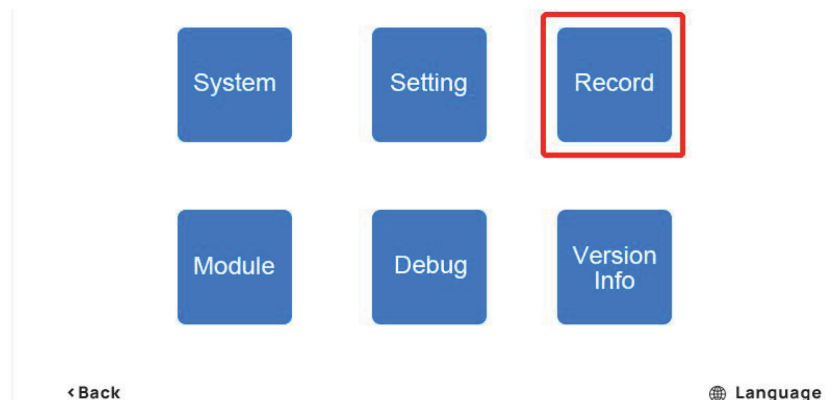
## 6.2.3 Viewing event Records

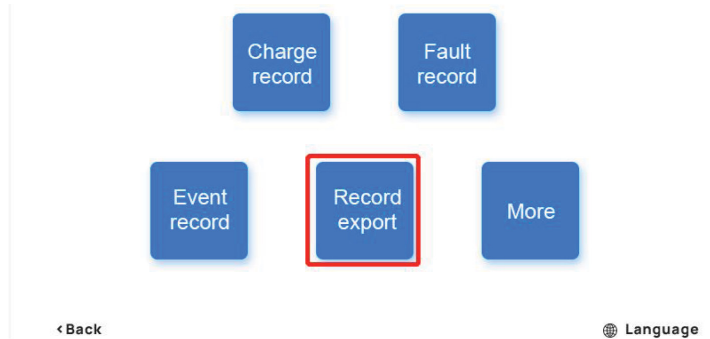
1-Click On Record-> Click on Event Record



## 6.2.4 The log export

1-Go to Record-> Click Report Export

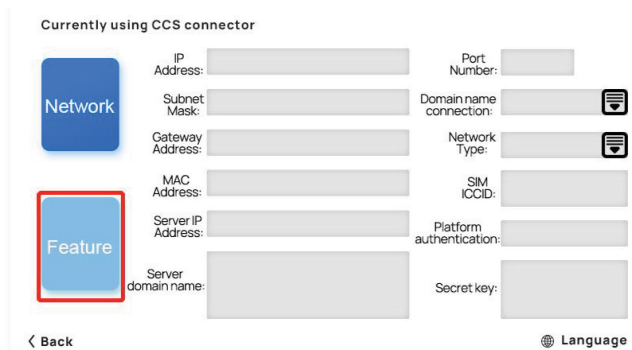
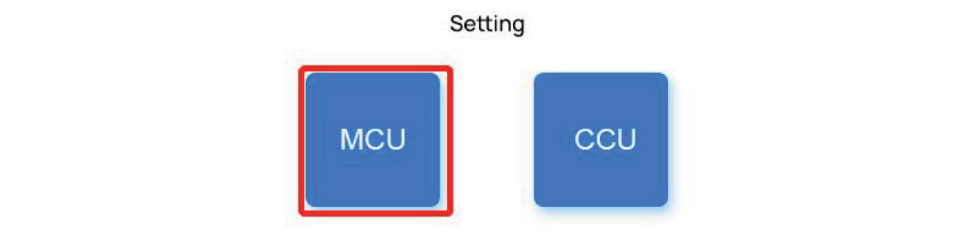
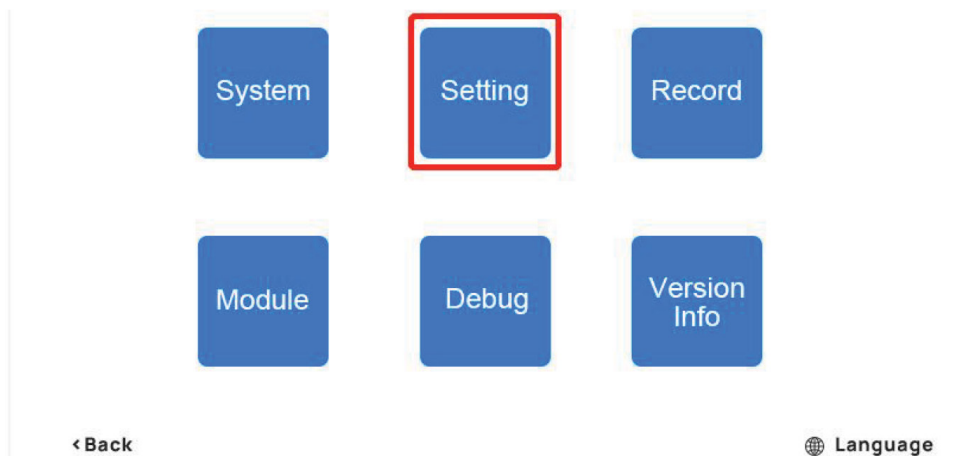




2-“Record is being exported” prompts Record Download Complete

## 6.2.5 Changing the Administrator Password

1-Click Setting-> MCU-> Feature



2-Click New Password to set a New password

The screenshot shows a configuration page with two main sections: 'Network' and 'Feature'. The 'Network' section includes fields for 'Charger Number', 'System Time', 'Administrator password', and 'Offline charging password'. The 'Feature' section includes 'Service Hotline', 'Dual-CCS Connector', 'Boot Type', 'Project type', 'Priority mode', 'Charging process', and 'Billing type'. On the right side, there are two buttons: 'New password' and 'Confirm password'. The 'New password' button is highlighted with a red rectangular border. At the bottom left is a '< Back' button, and at the bottom right is a 'Language' button with a globe icon.

3-Click Confirm Password to reconfirm your password

This screenshot is identical to the one above, showing the same configuration page. However, in this step, the 'Confirm password' button is highlighted with a red rectangular border, indicating the next action to be taken.

## 6.2.6 Version Information

1-Click Version Info to view Version information

