

August 13, 2023

# **Basic Training for Jupiter V3**

Star Charge Europe GmbH

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# **Brief Introduction**

## Highlights & Specification



High power factor >99%

Multiple connectors combination: CCS2+CHAdemo+AC Type 2

Simultaneous charging of all connectors

Output current: 200A

Wide output voltage 150-1000Vdc

Lower noise level

Cable management system facilitates cable movement





- A. LED status indicator
- B. Card swiping area for charging
- C. Touch screen
- D. Door lock
- E. Charging connector slot
- F. Charging cable management system
- G. Emergency stop
- H. POS terminal



General Information	
Input Rating	400Vac±10%, 3 phases, 50/60Hz, L1+L2+L3+N+PE
Power Factor	≥0.99 @ Normal Load
Efficiency	≥94% @ Full Load
Grid Type	TN-S, TN-C, TN-C-S, TT
Output Interface	CCS2+CCS2 or CCS2+CCS2+AC Type2 or CCS2+CHAdEMO+AC Type2
Output Power	CCS2: 60kW, CHAdEMO: 60kW, AC Type2 :22kW
Output Voltage	CCS2: 150-1000Vdc, CHAdEMO: 150-500Vdc
Output Current	CCS2: 200A max, CHAdEMO: 125A max, AC Type2 :32A max
Mechanical	
IP Rating	IP55
IK Rating	IK10
Cooling	Forced Air
Charging Cable Length	5m
Dimensions (WxHxD)	1050mm*715mm*1910mm
Weight	Approx. 200kg (excluding power modules 15kg*2)
Installation	Ground mounting
Certification and standards	
Standards and compliance	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, LVD 2014/35/EU, RED 2014/53/EU





# **Installation**

## Requirements & Workflow



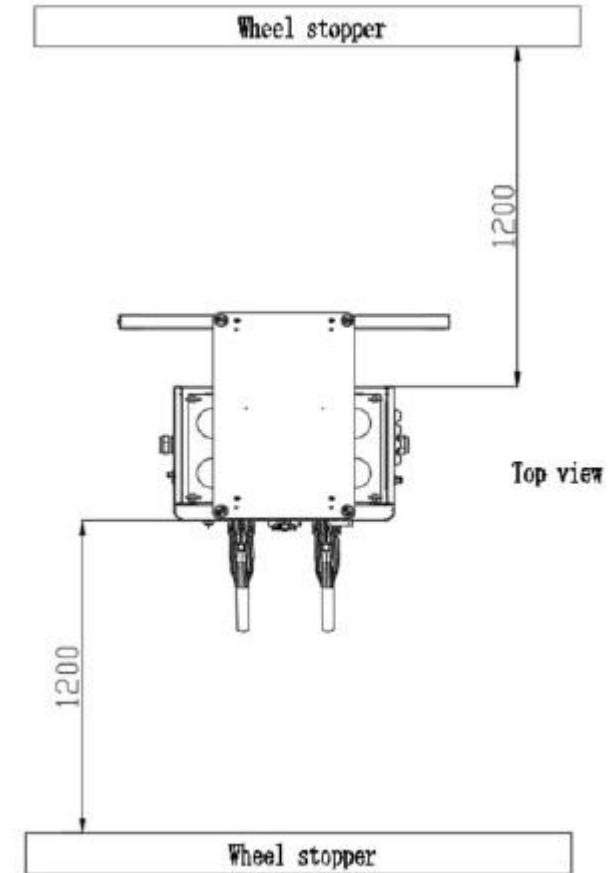
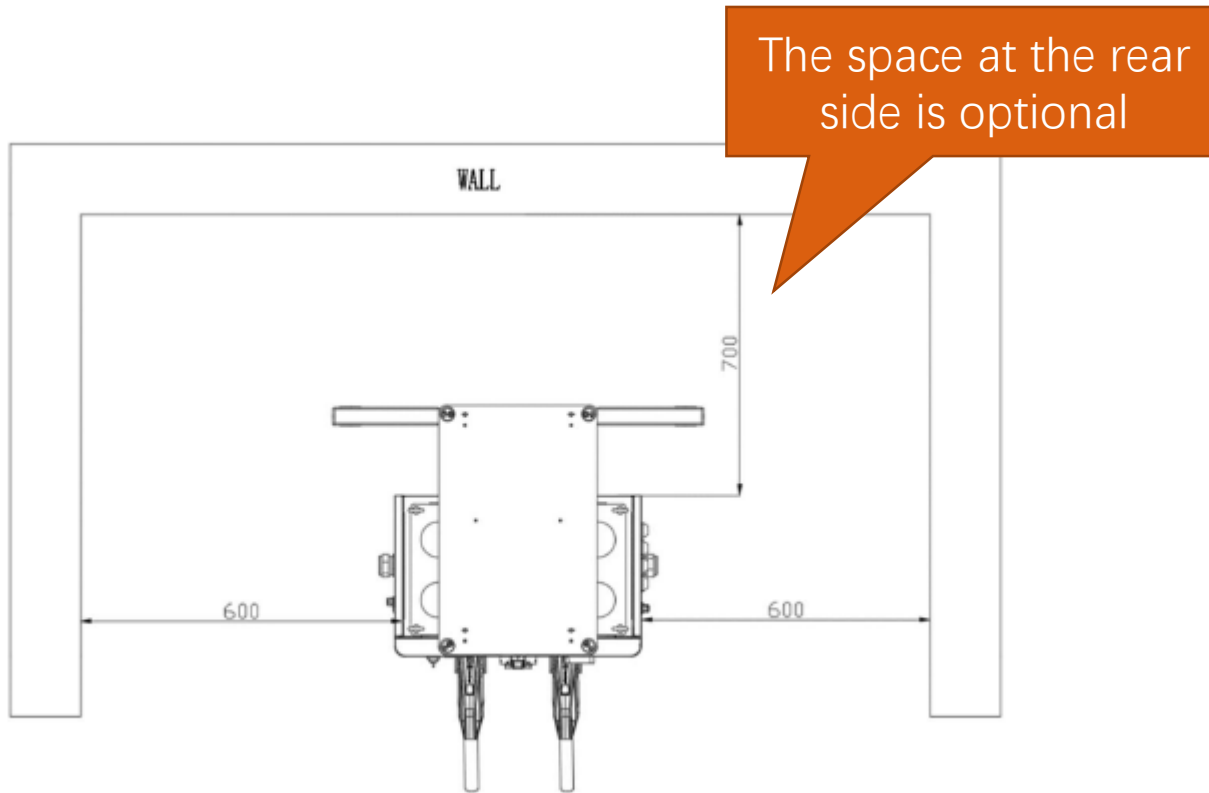
## 1.Requirements for grid capacity

- If the charger operates at full power, the grid capacity shall be  $\geq 85\text{kW}$
- Three-phase input, phase to phase voltage  $400\text{V} (\pm 10\%)$ , input current up to  $130\text{A}$  per phase
- Earthing system: TN/TT
- Recommended parameters of superior circuit breaker  $U_e = 400\text{V}$ ,  $I_n \geq 160\text{A}$ , thermal magnetic type,  $I_{cu} \geq 52.5\text{kA}$ ,  $I_{cs} \geq 35\text{ kA}$ , 4Poles
- Grounding resistance  $\leq 4\Omega$  or follow local regulation
- Insulation resistance  $\geq 1\text{M}\Omega$  or follow local regulation





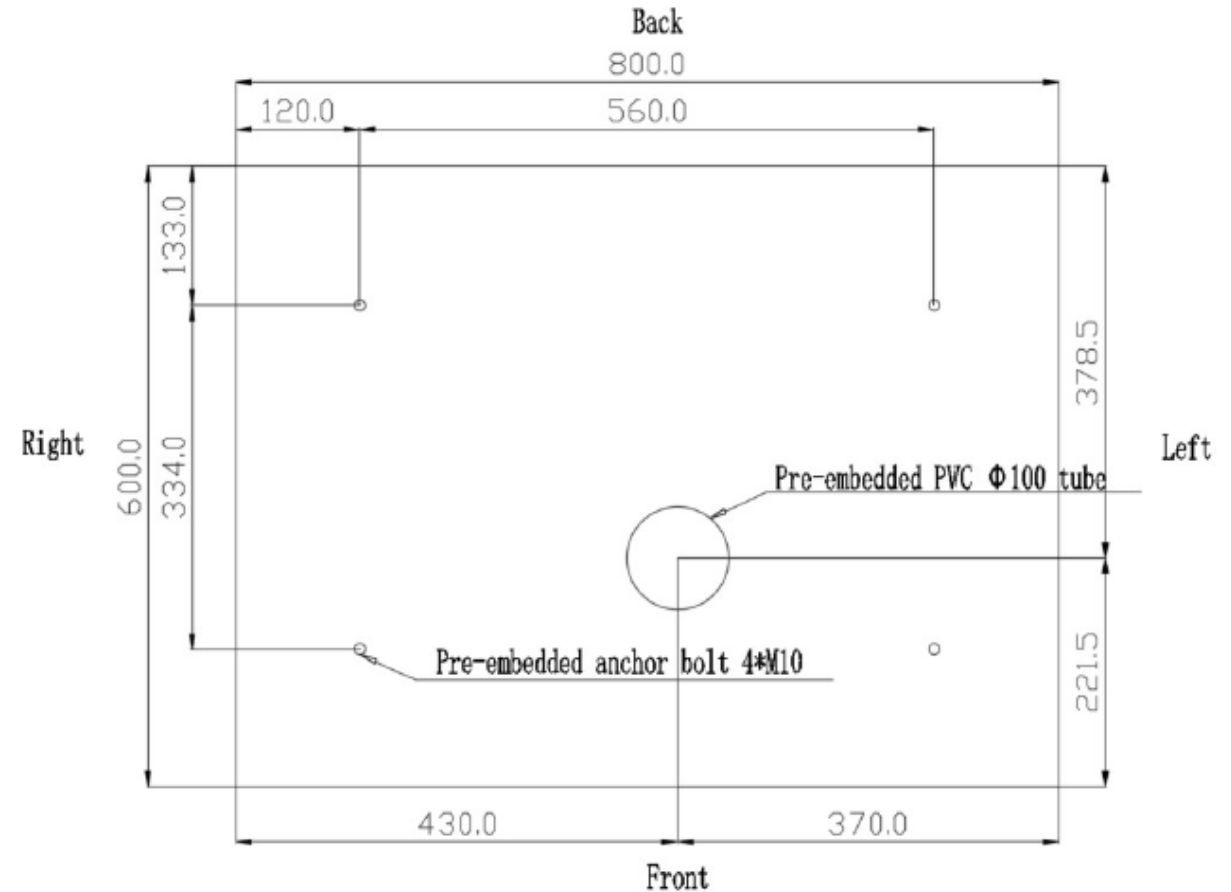
## 2.Maintenance distance



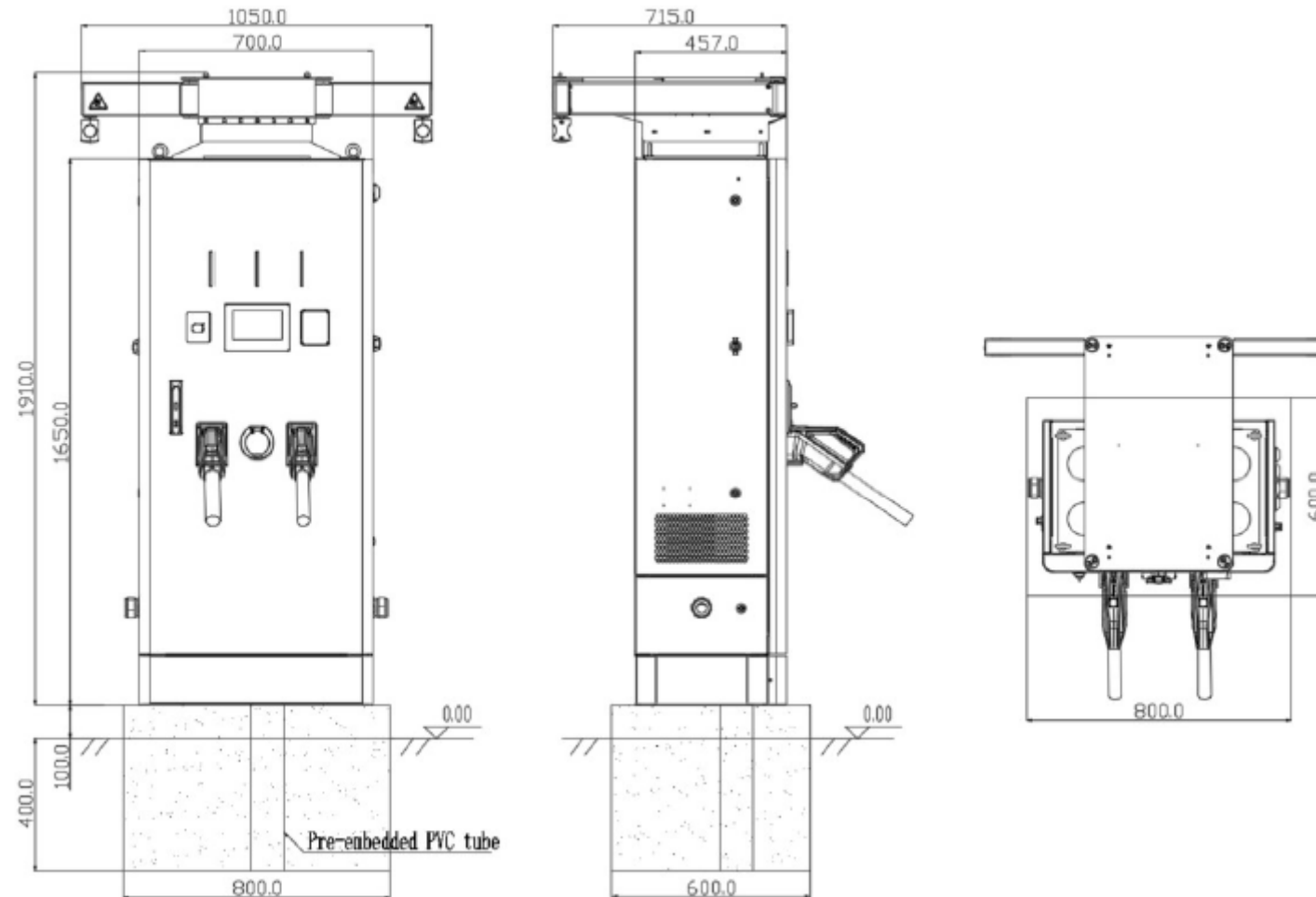
## 3. Installation foundation

The charger shall be installed on a hard mounting floor (e.g. cement floor), if there is no appropriate mounting floor on site, a concrete foundation is recommended.

- Size 800mm \* 600mm \* 500mm
- Depth of the foundation 400mm
- Height above the ground 100mm.
- The foundation is filled with C20 concrete



## 3. Installation foundation



## 4. Power cable specification

- 3 \* 50mm<sup>2</sup> (L1,L2,L3)+ 2 \* 25mm<sup>2</sup> (N, PE)
- The core material is copper.



## 1. Unpacking check

Check the following items:

- packing list number and equipment quantity.
- equipment nameplate information.
- whether spare parts and accessories are complete
- Factory inspection report and certificate.
- whether the appearance of equipment is in good condition

Package	Package Size(mm)	Weight	Attached documents	Parts List
Wooden box	1170*870*2080 (W*D*H)	293kg	Certificate of conformity Factory inspection report User manual	DC charger*1 Key*3 Key of triangle lock*1 IC card*2 Power module*2



## 2. Power cable preparation

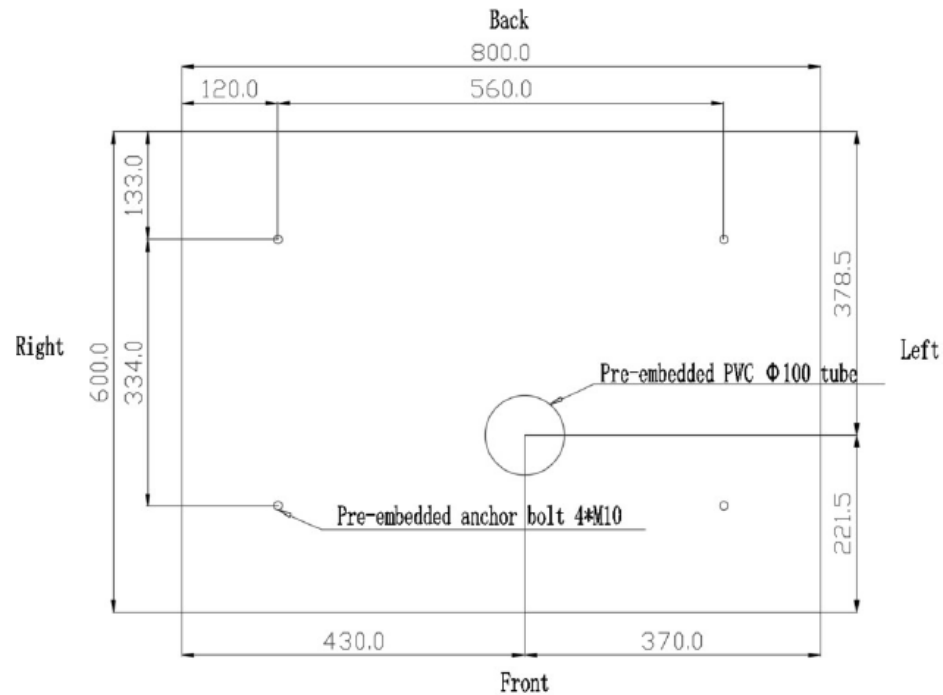
Please lay the power cables in advance.

- power cable: reserve **0.6m** length above the ground (or concrete foundation surface)
- If network cable is needed, reserve **1.2m** above the ground (or concrete foundation surface)



## 3. Foundation preparation

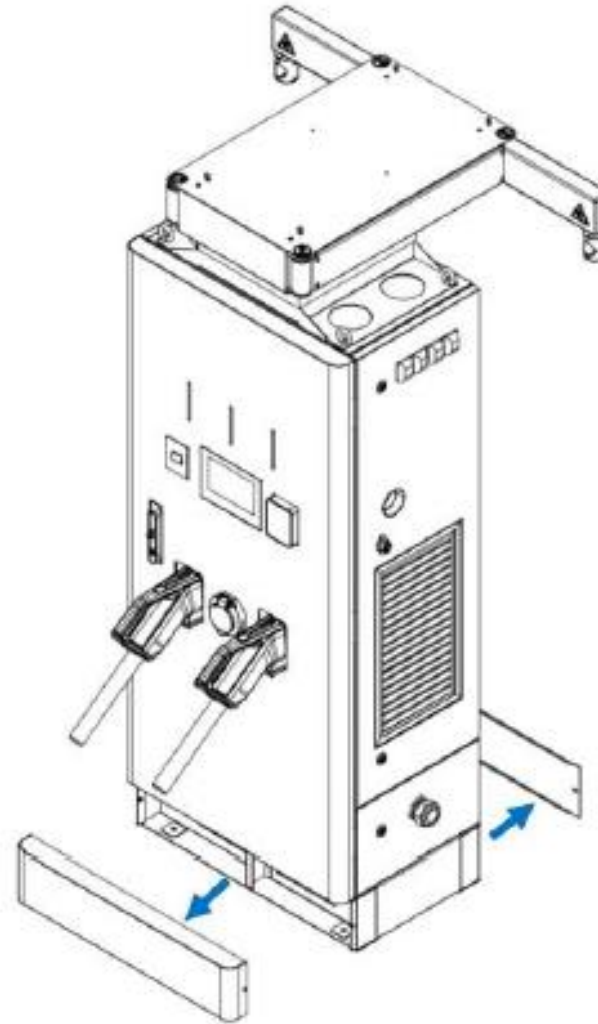
4 M10 anchor bolts shall be pre-embedded into the floor in advance and expose 30-40mm on the upper surface of the concrete foundation.



## 4. Lifting

Remove the front / rear sealing plates

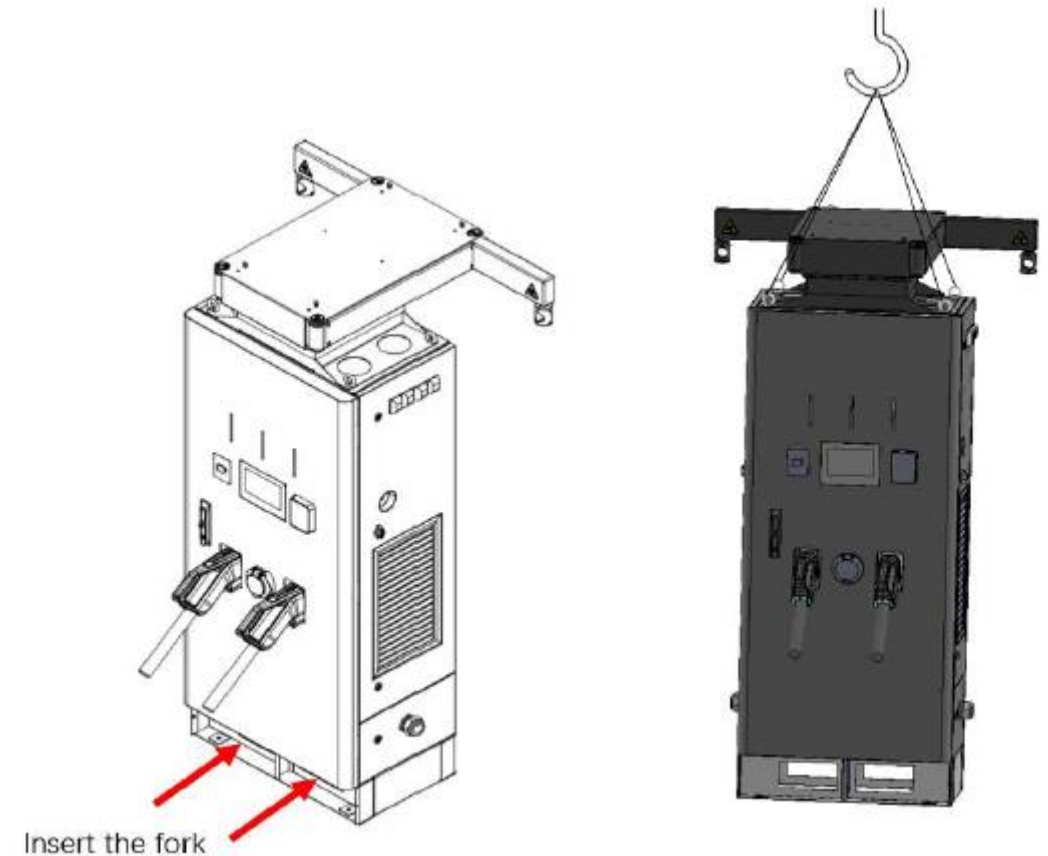
Remove screws from pallet





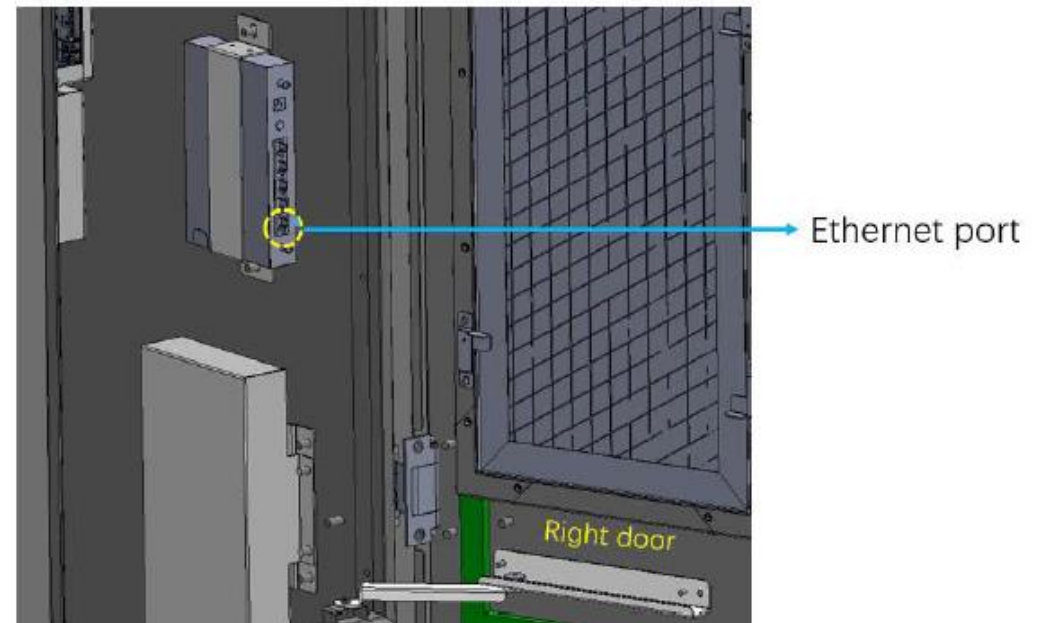
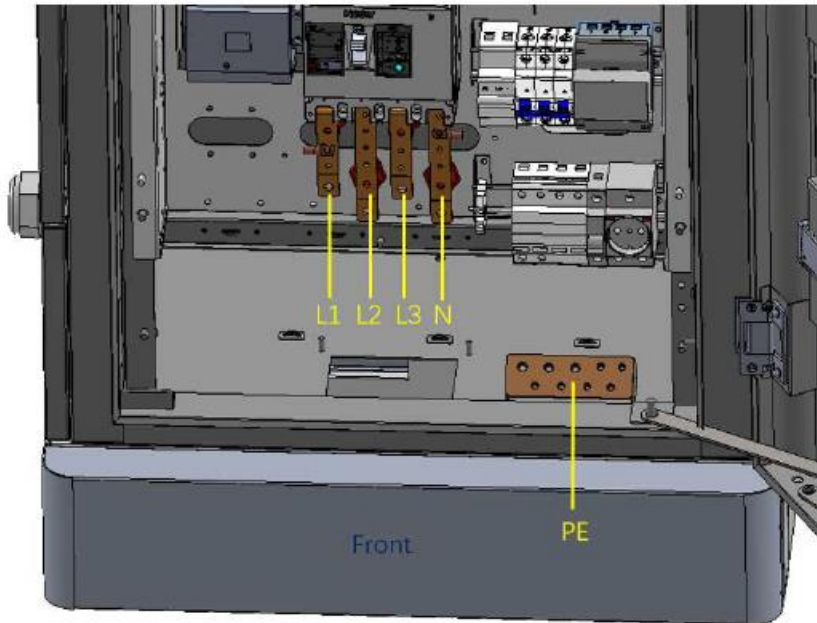
## 4. Lifting

- Lift charge by crane or forklift
- Lower the charger slowly.
- Align 4 holes at the bottom of the charge with the embedded bolts on the foundation.
- Fix the nuts and reinstall the sealing plate.



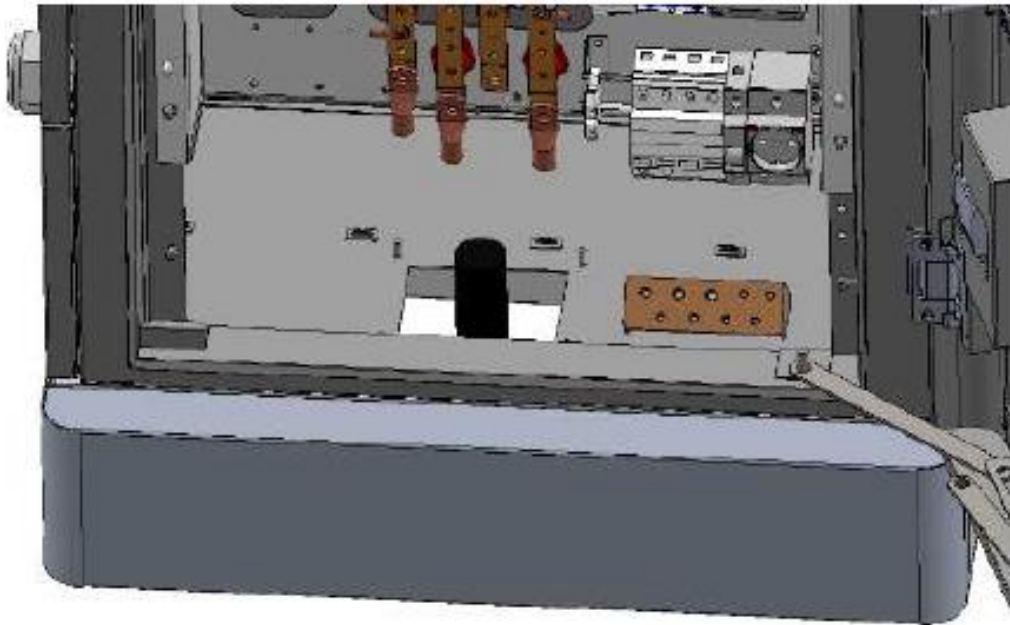
## 5. Power cable handling

- Open the front door of the charger and thread the power cables from the bottom.
- Connect the power cable to the copper busbar
- If the network cable is used for internet connection, thread the network cable through the bottom of the charger and connect it to the Ethernet port.

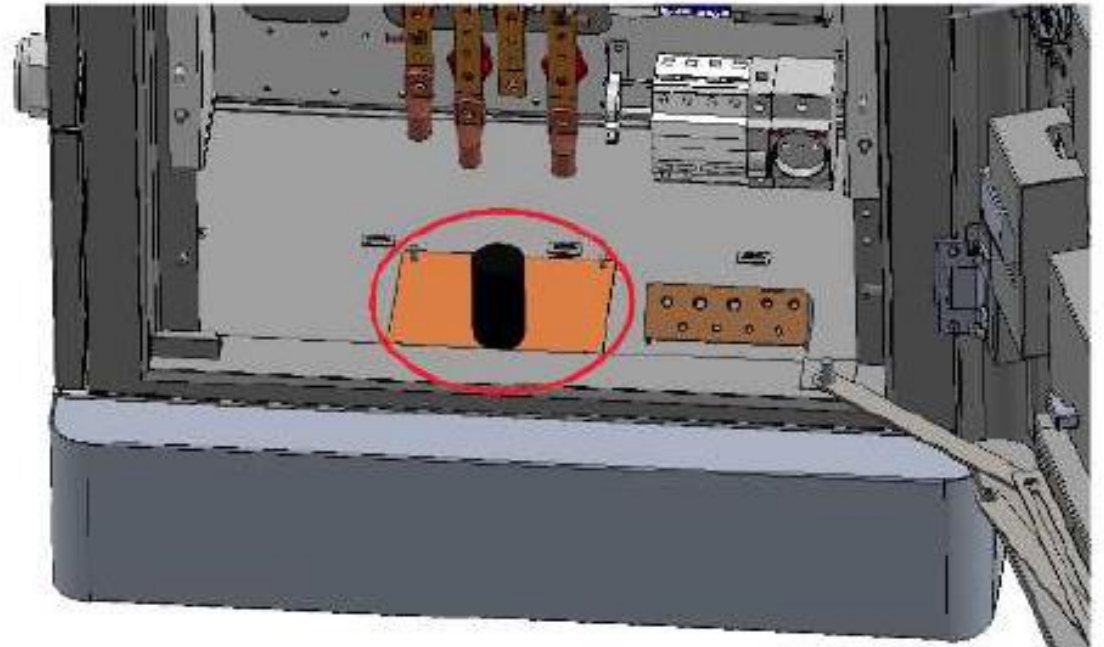


### 5. Power cable handling

- Fill and block the cable inlet hole at the bottom with fire-proof mud



Hole before sealing

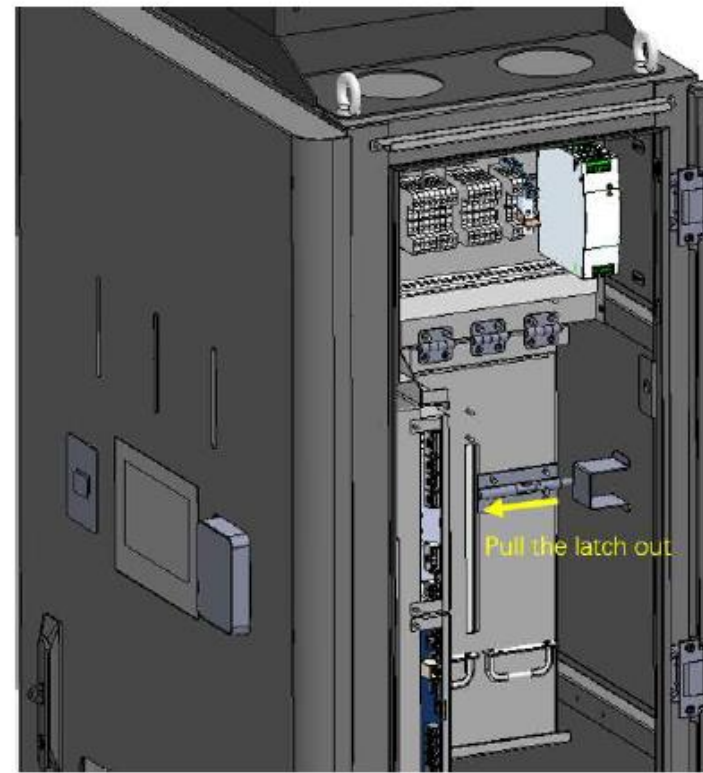


Hole after sealing



## 6. Insert power module

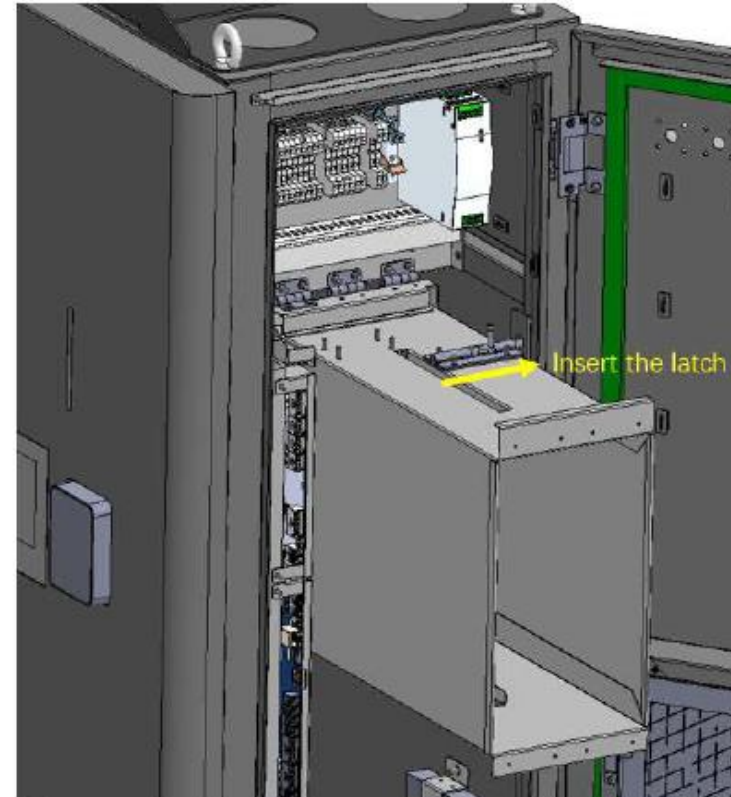
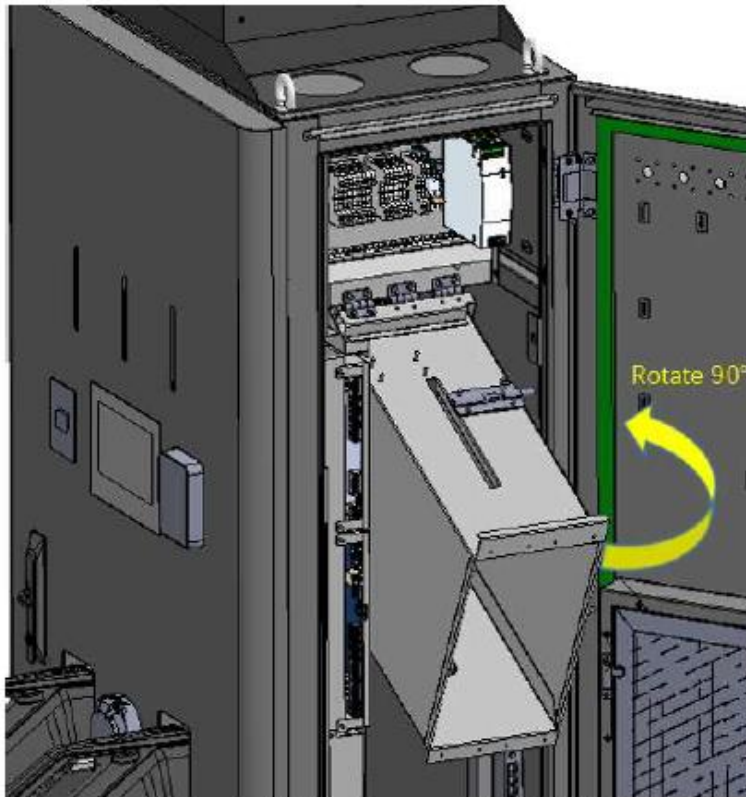
- 1) Open the left door of the charger, and remove the two screws, then open the right door and pull the latch of the power module slot out





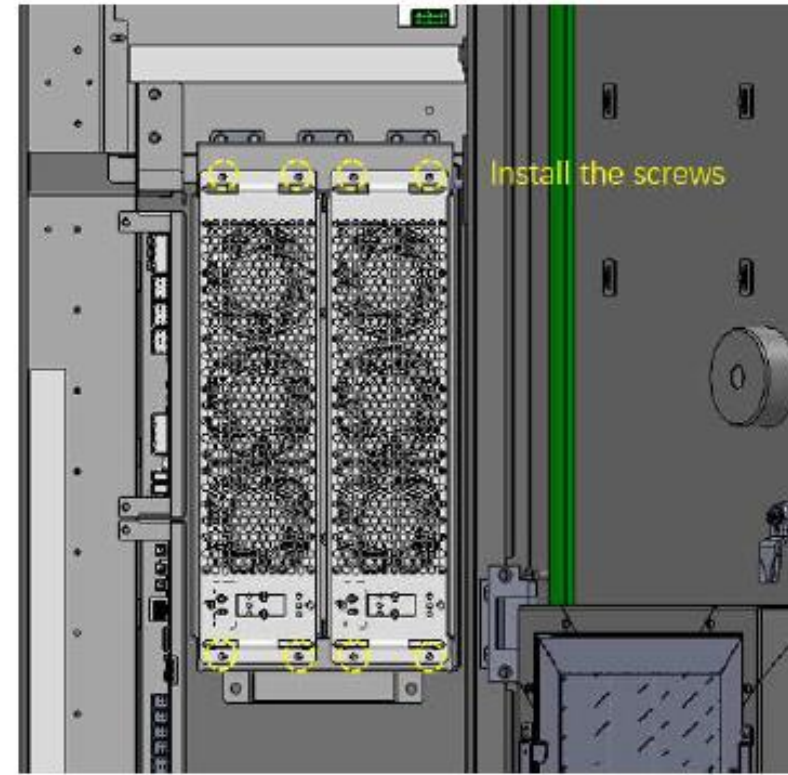
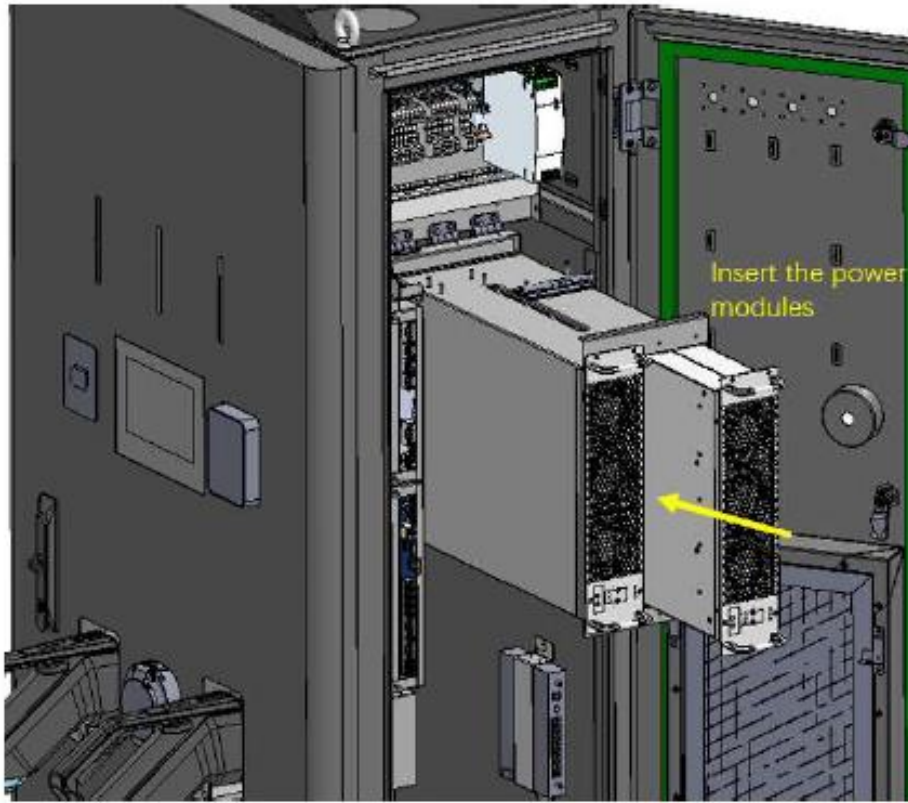
## 6. Insert power module

2) Rotate the module slot up 90° and insert the latch.



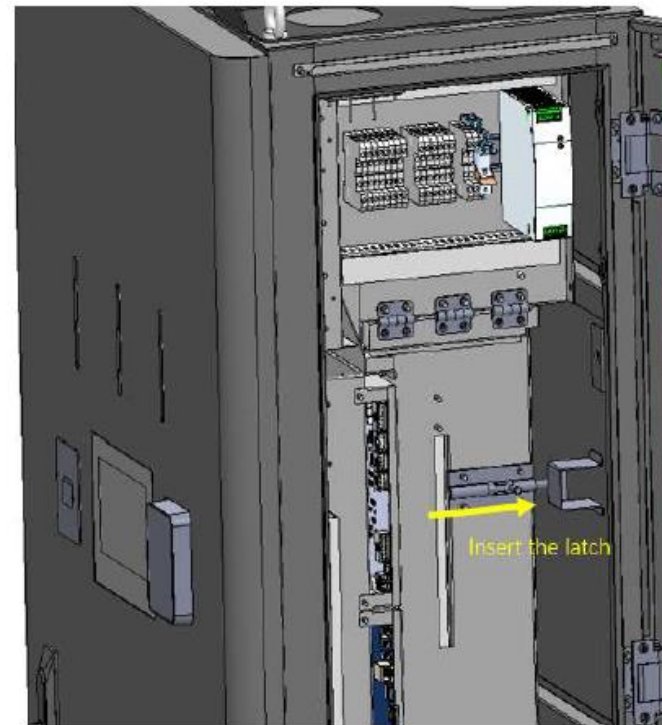
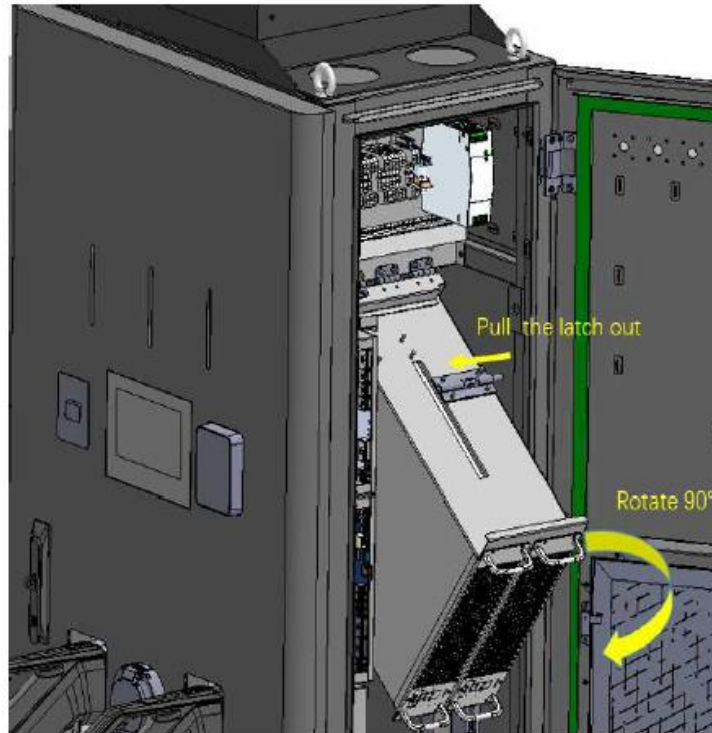
## 6. Insert power module

3) Insert the modules into the module slot and fix them with screws.



## 6. Insert power module

- 4) Pull the latch out and rotate the module slot down 90°. Then insert the latch to keep the module slot in the position.



## 6. Insert power module

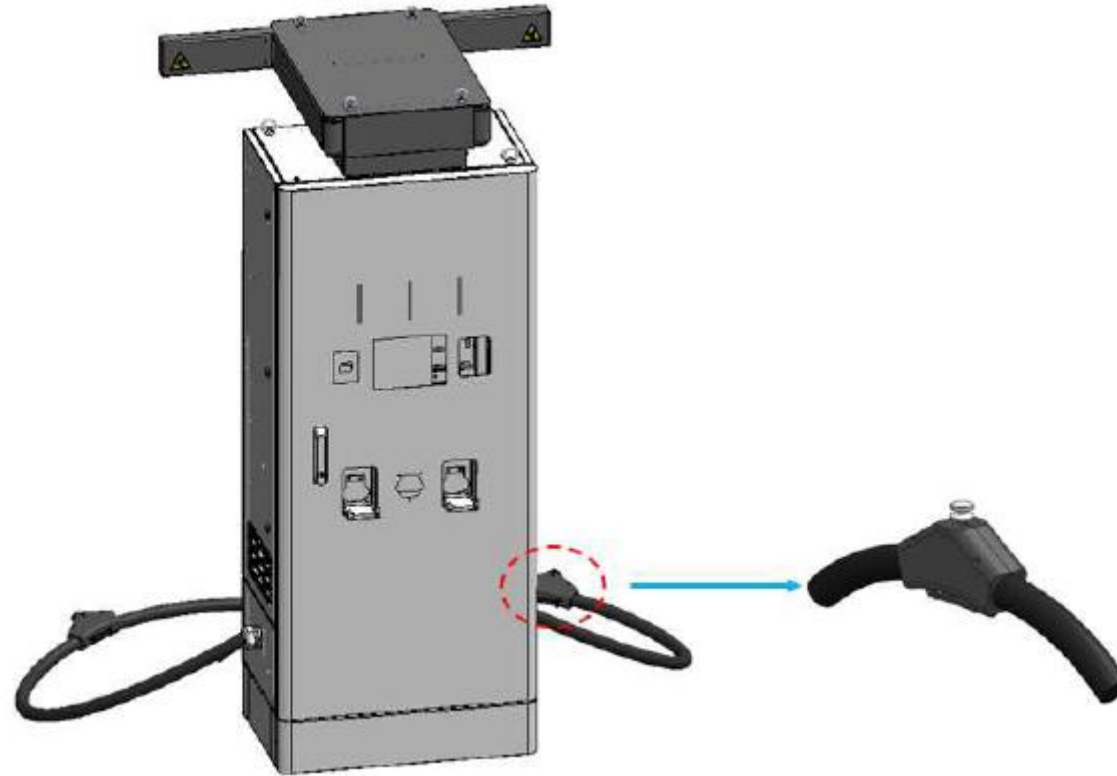
5) Reinstall the screws on the right side..





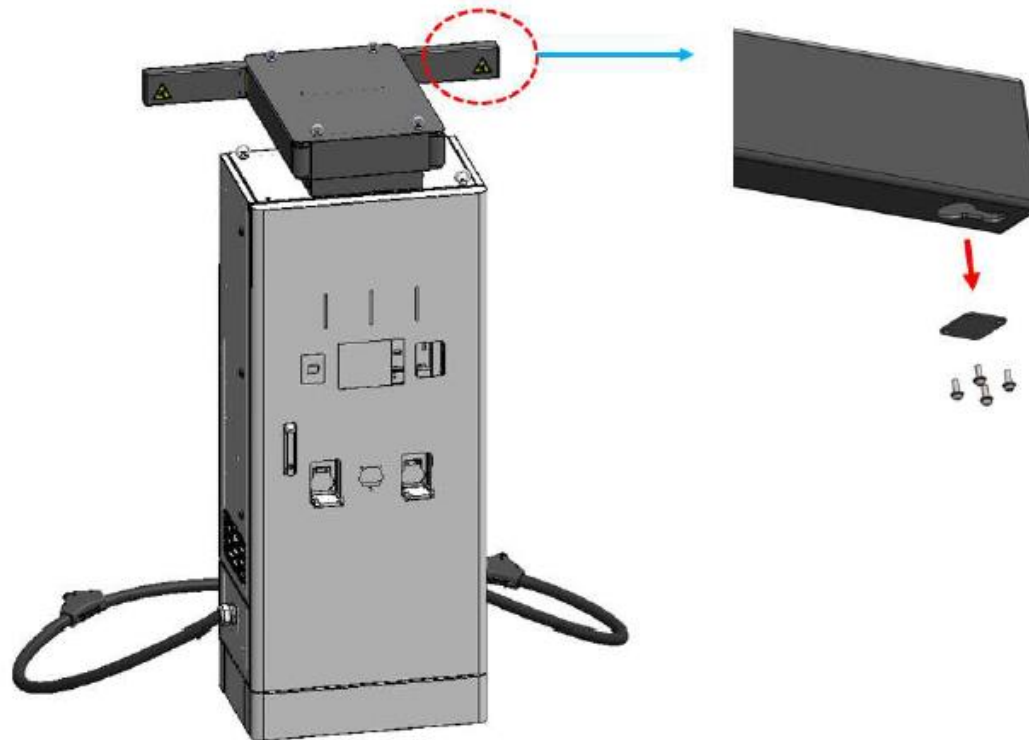
## 7. Fix charger cable

1) Open the package of the charger cable (clamp is already on the charging cable).



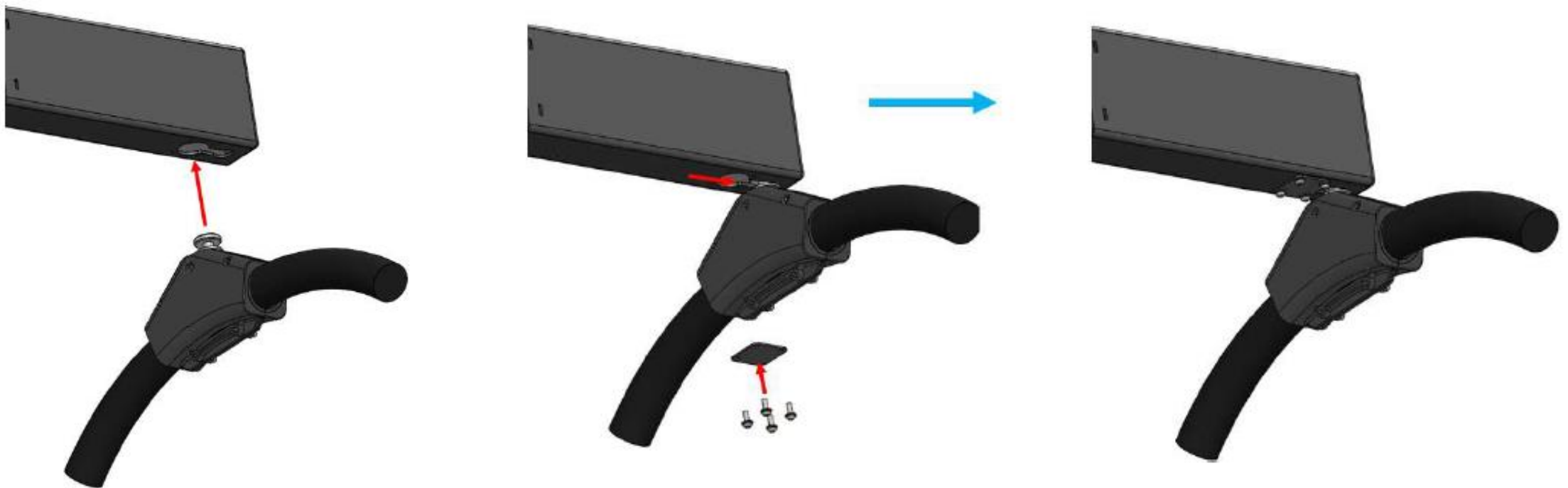
## 7. Fix charger cable

2) Remove the sealing plate from the CMS (cable management system).



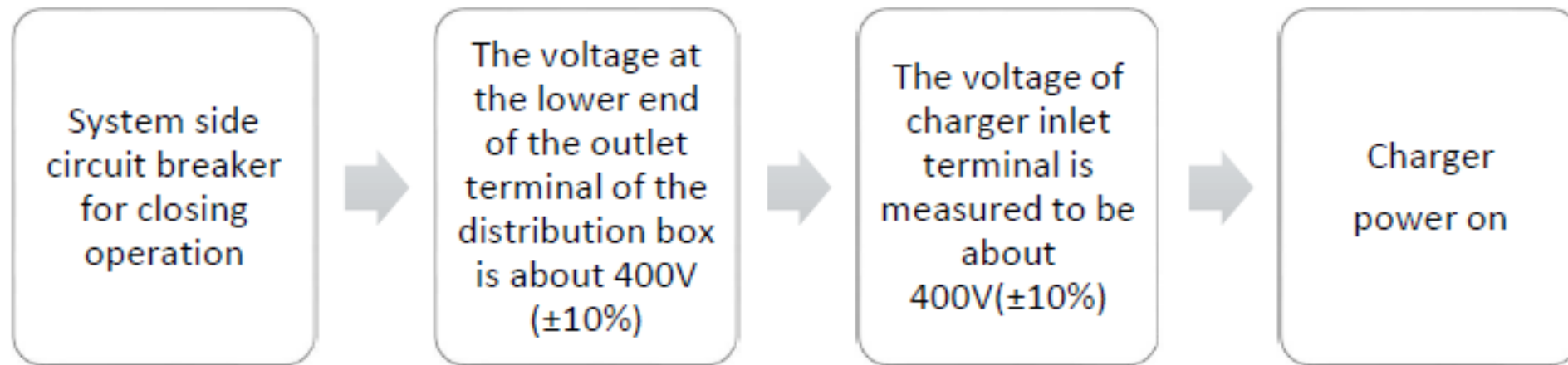
### 7. Fix charger cable

- 3) Insert the axis of the charger cable clamp into the hole of the CMS. After that move the charger cable clamp to the right position, then install the sealing plate



### Inspection after installation

Check the power supply cable in upstream power distribution cabinet and charger cabinet, ensure there are short circuit, no lack-phase, over voltage, under voltage, phase sequence abnormality. Measure the voltage of different power equipments in the following order:










# **Commissioning**

## Tools & Workflow



# Commissioning - Tools






Item	Tools	Usage	Example
1	Laptop	Configure the settings, read the log, Troubleshooting	
2	Ethernet cable	Connect laptop to charger	
3	J - LINK tool	Firmware update (for complex troubleshooting)	
4	SD Card (8 or 16GB) and reader	Firmware update (for complex troubleshooting)	
5	Screwdriver set	Assemble and disassemble the screws	

Must have

Recommended to have, only needed for complex troubleshooting

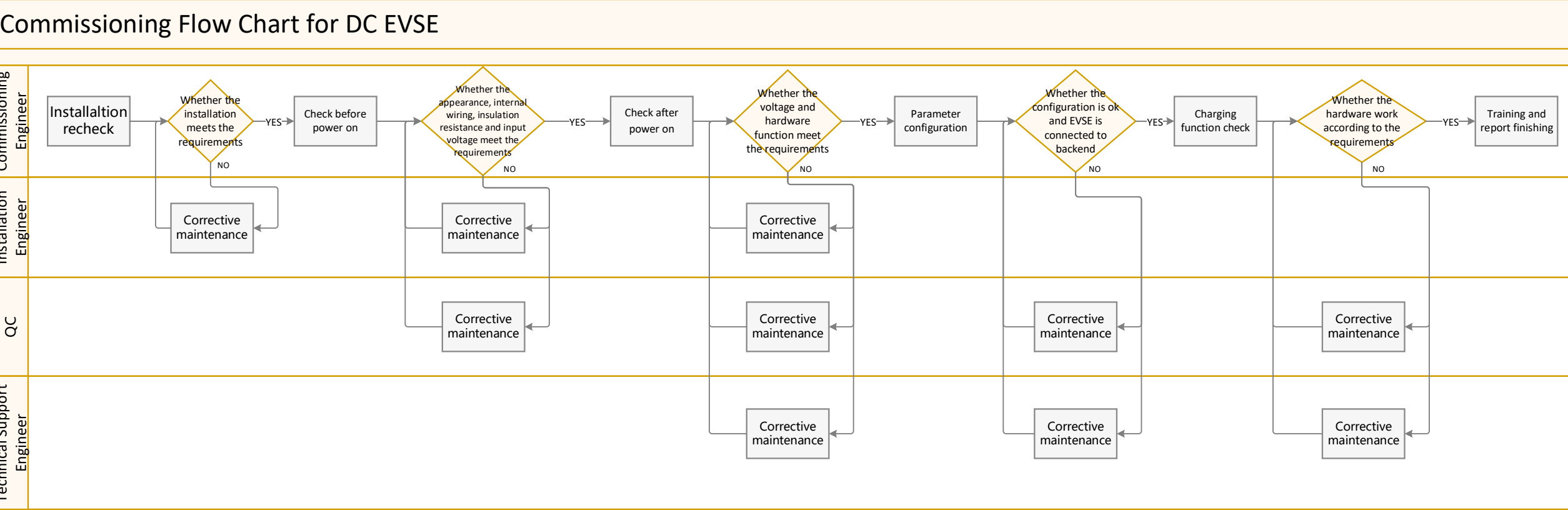


# Commissioning - Tools

Item	Tools	Usage	Example
6	Wrench set	Standby	
7	Electrical multimeter	Electric measurement	
8	Safety Sign	Warn potential danger on site	
9	Electrician protective gloves	Safety protection	
10	Electrician protective Shoes		



# Commissioning - Workflow





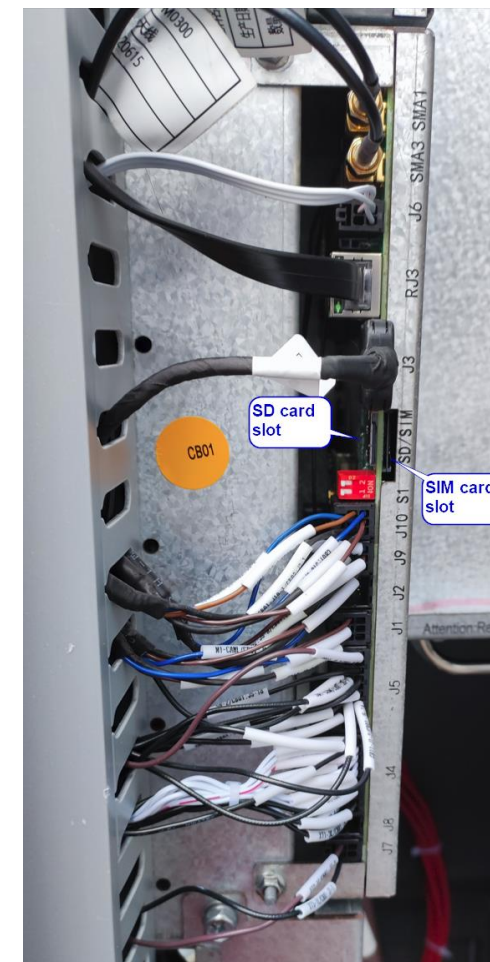
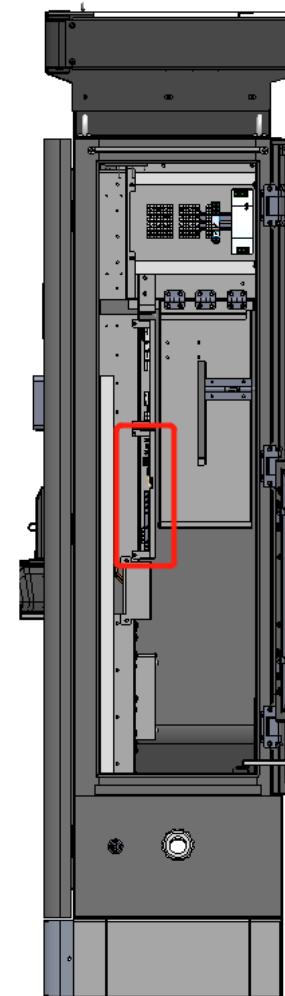
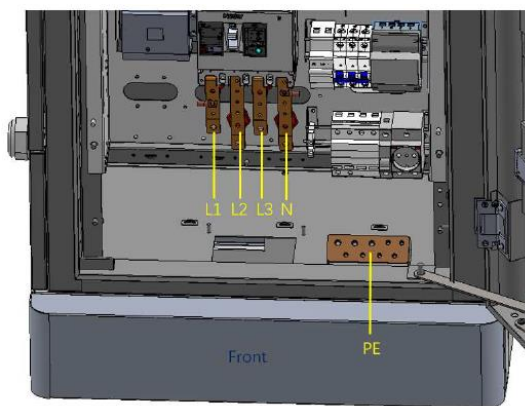
### 1. Installation Recheck

1. Pedestal of charger should be fixed and sealed well.
2. Outside appearance of cabinet should be intact
3. Power supply cables should be intact and tightened well.
4. Grounding/Insulation resistance should in compliance with the local regulation
5. Read information on nameplate and sign: confirm the rated output power.

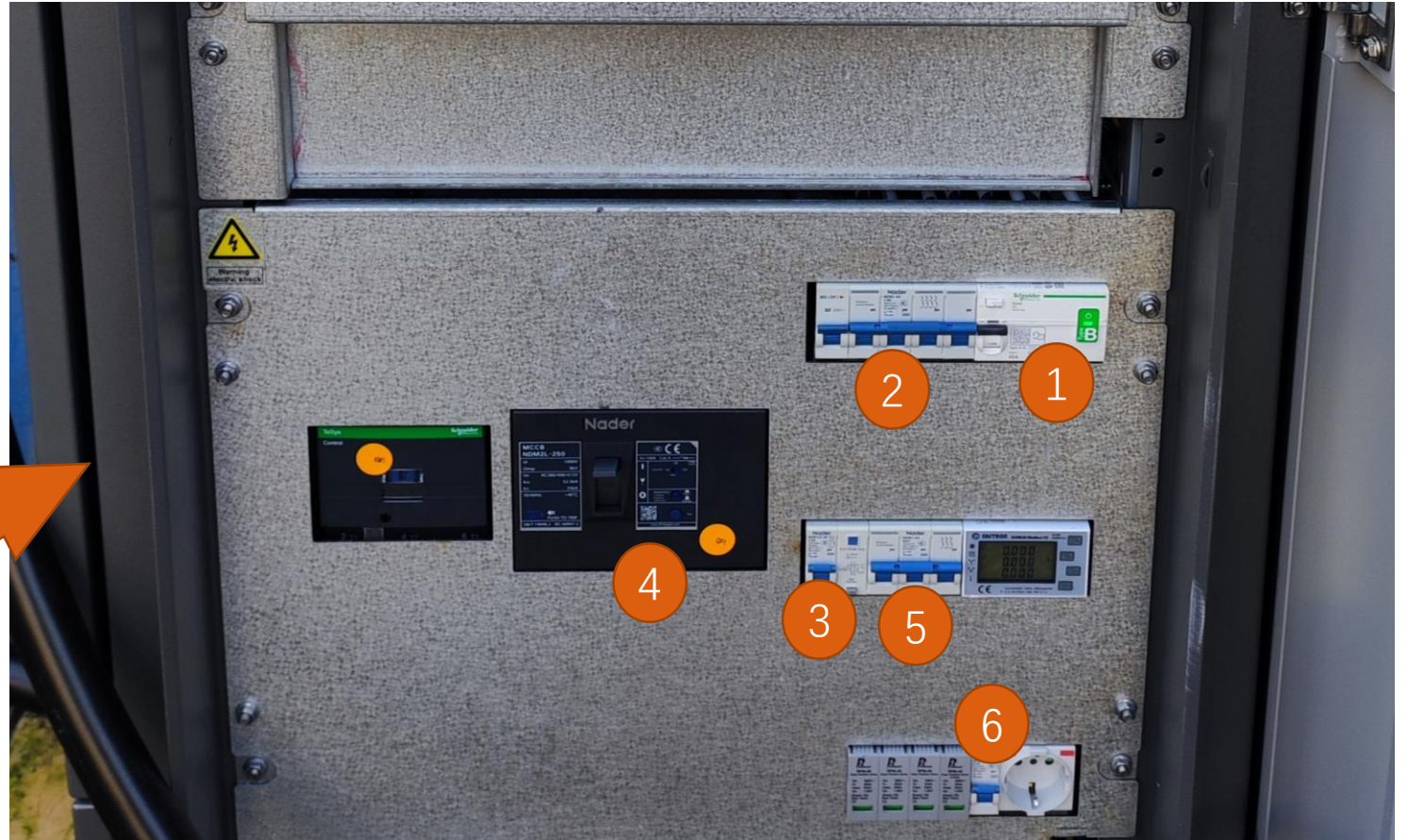
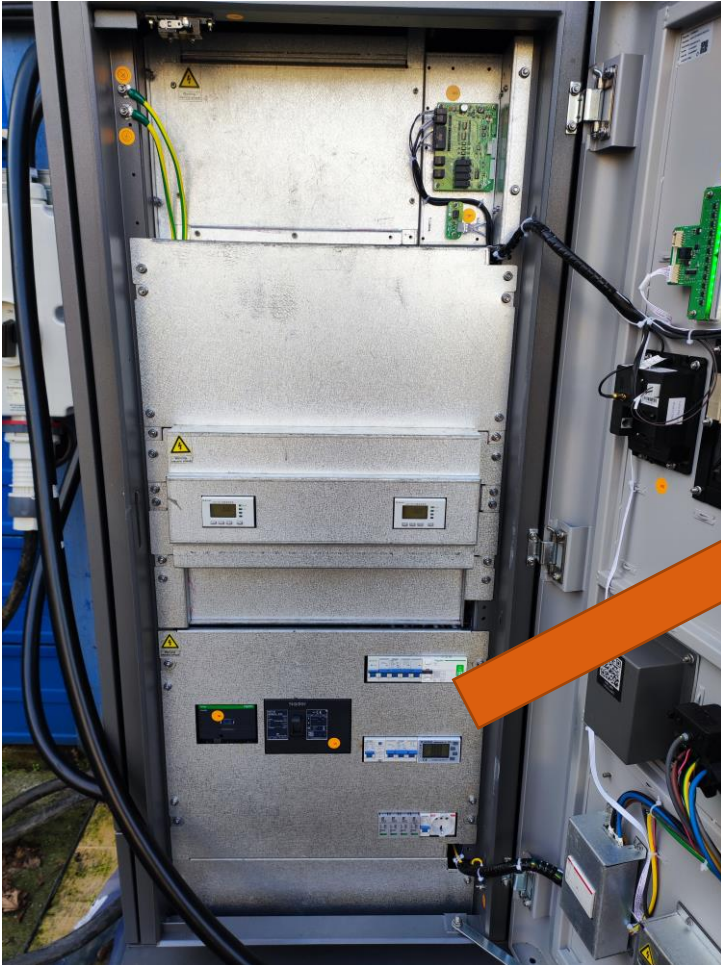


## 2. Check before power on charger

- 1) Fasten screws : Check whether the screws on power connection are fastened.
- 2) Check the input power voltage: Check the input voltage of the main breaker in charger and make sure there's no fault such as phase loss, overvoltage, undervoltage and wrong phase sequence.
- 3) If SIM card is used for the internet connection, please insert the SIM card into the slot of A7 control board.



## 3. Check after power on charger



1: RCD for AC socket 2: MCB for AC socket 3: MCB for 12V auxiliary power  
4: MCCB for power modules 5: MCB for SPD 6: MCB for 230V auxiliary power





## 3. Check after power on charger

1. Touch screen: Check whether the touch screen displays normal. The display image should be clear.
2. LED indicator light: Check whether the LED indicator light on the charger. The LED light should be green.

Note: If display is not on, check the switching power supply inside charger: It provides 12V DC power to control boards and screen



# Commissioning - Workflow

## 4. Parameter configuration

### Software settings needs to be configured:

- Internet communication (4G, Ethernet, WIFI)
- OCPP backend
- Charger authentication method
- Connector & output power configuration
- Power module configuration

Login

Username

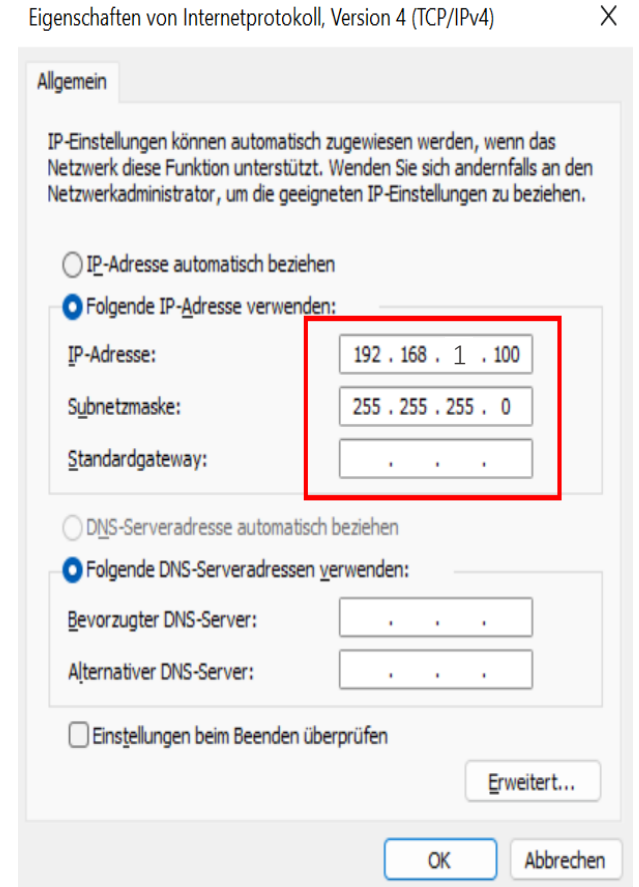
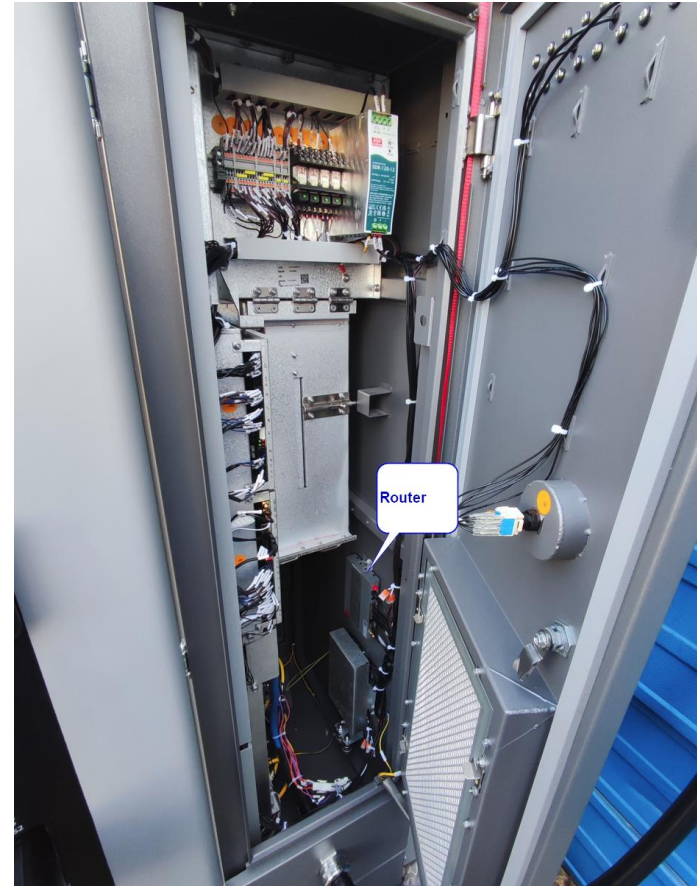
Password

Sign me in

## 4. Parameter configuration

Preparation:

Connect laptop to router via Ethernet cable and set laptop IP address as shown below (e.g. 192.168.1.xxx, xxx can be any number except 136)





# Commissioning - Workflow

## 4. Parameter configuration

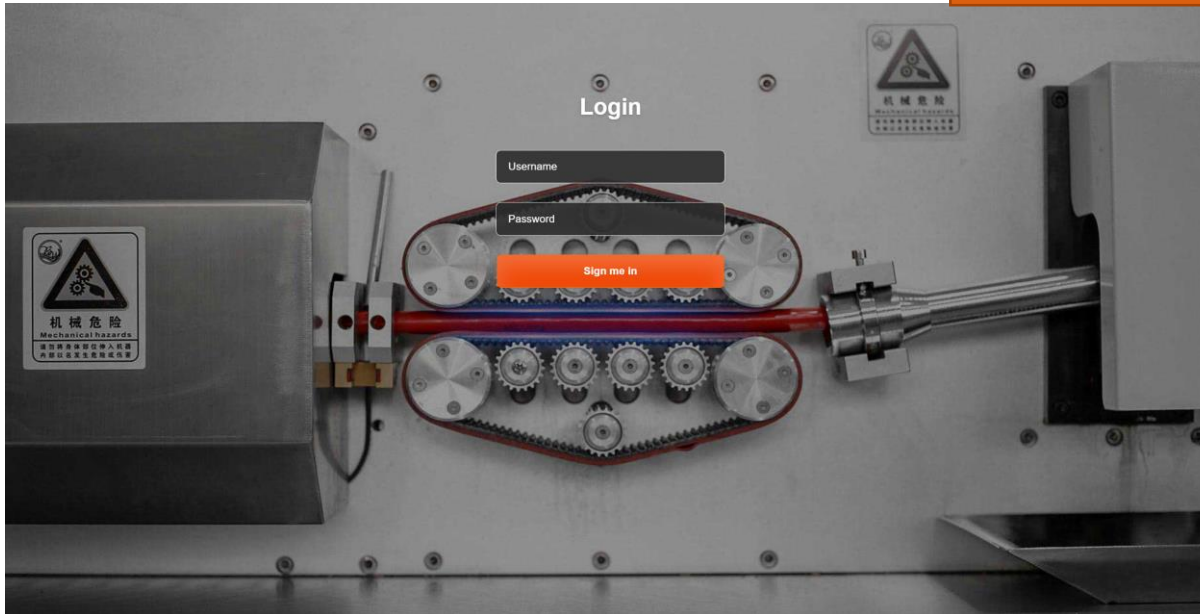
Log in:

Open a browser (e.g. chrome, edge) and enter IP address of charger 192.168.1.136

Username **wbdh**

Password **Wbdh26835941.**

The username and password may change in new firmware version. If you have issue during log in, please contact StarCharge service team



## 4. Parameter configuration

### Contents

#### Quick Setup

Collection of the most used settings

#### Software Configuration

Settings for 4G, Ethernet, WIFI, OCPP and authentication methods

#### CP Configuration

Charger connector settings for connector type, output power limit, etc.

#### CP Status

Check the internet and backend connection status

#### Power Unit Configuration

Settings for power unit assignment

#### Power Unit Status

Check the status of power unit status

#### SmartOPS

This function is still under development...

#### Upload And Download

Firmware update and log download





## 4. Parameter configuration

### Firmware update:

In the first commissioning of a new charger, the firmware of the charger is usually relative old and needs to be updated to newest version to optimize the charger performance.

To check the firmware version, go to “Software setting ” and find “version” data.

Star Charge engineer will provide you the newest firmware version and guide you do the update.

About how to update the firmware, it will be explained in a separate training session video.

Hardware Setting

Software Setting

Charging Status

Upload and download

Functions Enable  
(Get data error)

Card Type  
Billing card

Local startup whether to go ocpp background  
No

Whether to open the qr code process  
No

Whether to transfer private data  
No

Time Zone And DST Setting

☐ Enable modification

UTC Time Setting

Similar to 2019-07-01 08:45:45

2022-11-01 11:16:49

Get version

Version

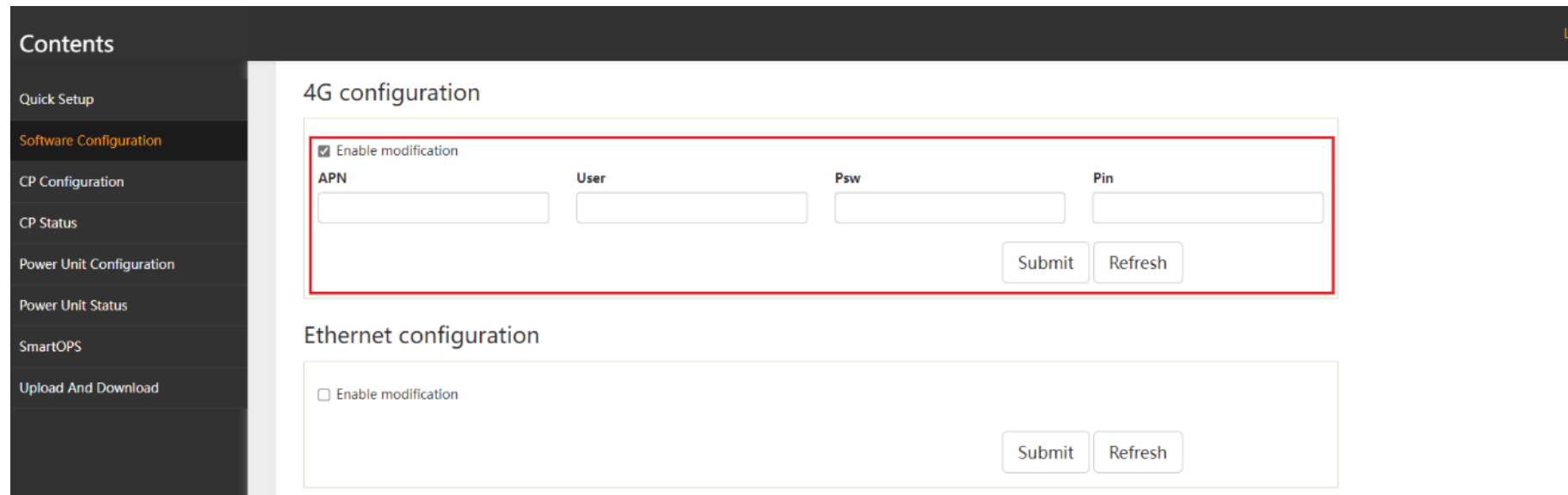
1.5.1.8.1b213



## 4. Parameter configuration

### Internet communication (4G, Ethernet, Wifi)

1. Click “Enable modification”
2. Enter data for APN, User, Psw and Pin
3. Click “Submit”



The screenshot displays the Starcharge web interface. On the left is a dark sidebar with a 'Contents' menu. The main area is titled '4G configuration'. Within this section, a red rectangular box highlights the 'Enable modification' checkbox (which is checked), and the input fields for 'APN', 'User', 'Psw', and 'Pin'. Below these fields are 'Submit' and 'Refresh' buttons. Below the 4G configuration section is the 'Ethernet configuration' section, which has an unchecked 'Enable modification' checkbox and its own 'Submit' and 'Refresh' buttons.

**Contents**

- Quick Setup
- Software Configuration**
- CP Configuration
- CP Status
- Power Unit Configuration
- Power Unit Status
- SmartOPS
- Upload And Download

**4G configuration**

☒ Enable modification

APN User Psw Pin

Submit Refresh

**Ethernet configuration**

☐ Enable modification

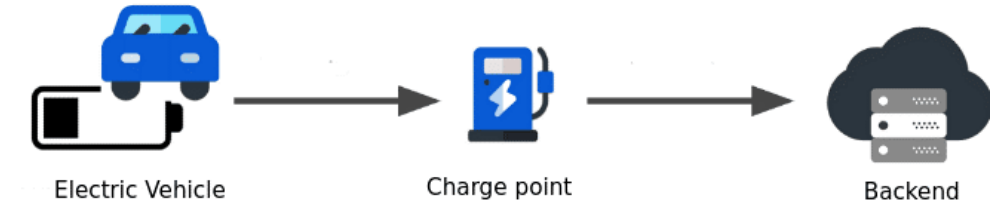
Submit Refresh



## 4. Parameter configuration

For OCPP backend

Set CP backend: Enter data for URL, Path, Port and SSL\_ON according to OCPP backend address



### Contents

- Quick Setup
- Software Configuration
- CP Configuration
- CP Status
- Power Unit Configuration
- Power Unit Status
- SmartOPS
- Upload And Download

## OCPP

### CP Backend

<b>URL</b>	<input type="text" value="36.153.57.202"/>	<b>Path</b>	<input type="text" value="/steve/websocket/CentralSystemService"/>
<b>Port</b>	<input type="text" value="3400"/>	<b>SSL_ON</b>	<input type="text" value="0"/>
<b>Authorization key</b>	<input type="text"/>		

### Certificate import

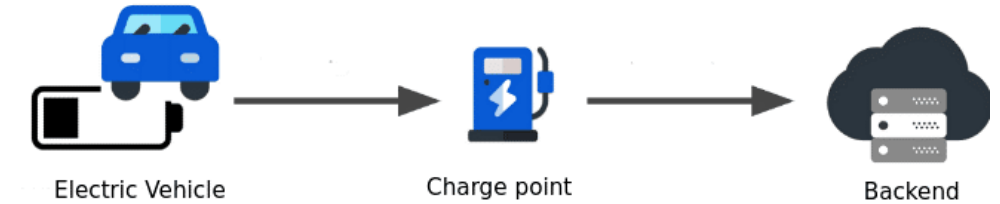
2023/9/20

## 4. Parameter configuration

For OCPP backend

Set CP Identity: Enter the charger ID number which is registered in the OCPP backend.

EVSE ID: for charger with 3 connector, "1-1-1"  
for charger with 2 connector, "1-1"



The screenshot shows the 'CP Configuration' web interface. On the left is a sidebar with a 'Contents' menu. The main area is titled 'CP Configuration' and shows the breadcrumb 'Home / Configuration / CP Configuration'. Below this is the 'Identification' section, which contains several input fields. Two red arrows point to the 'ChargePoint ID' and 'EVSE ID' fields. The 'ChargePoint ID' field contains '1234'. The 'EVSE ID' field contains '1-1'. Other fields include 'Group Number' (1234), '#1 Gun Address' (1), '#2 Gun Address' (2), '#1 Gun QRcode' (1234567801), and '#2 Gun QRcode' (1234567802). At the bottom right of the form are 'Submit' and 'Refresh' buttons.

ChargePoint ID	Group Number	EVSE ID
1234	1234	1-1

#1 Gun Address	#2 Gun Address
1	2

#1 Gun QRcode	#2 Gun QRcode
1234567801	1234567802

Submit Refresh



## 4. Parameter configuration

### Charger authentication method

Following authentication method can be selected:

The screenshot displays the 'Additional Function' configuration page in the Starcharge web interface. On the left, a dark sidebar contains a 'Contents' menu with items: Quick Setup, Software Configuration (highlighted), CP Configuration, CP Status, Power Unit Configuration, Power Unit Status, SmartOPS, and Upload And Download. The main content area has a top bar with 'Language' on the right. The 'Additional Function' section includes an 'Authentication' dropdown menu, which is currently open, showing four options: 'Local Authentication' (highlighted with a blue bar), 'Backend Authentication', 'Local PnC', and 'AutoCharge'. Below this is the 'Data Transfer For Mac' section, featuring a dropdown menu set to 'Disable'. To the right of these sections are two sets of buttons: 'Submit' and 'Refresh' for the Authentication section, and 'Submit' and 'Refresh' for the Data Transfer For Mac section. The 'Submit' button in the Authentication section is highlighted with a red rectangular box. At the bottom of the page, there is a 'Time Zone And DST Setting' section with a checkbox labeled 'Enable modification'.



## 4. Parameter configuration

### Charger authentication method

Authentication method	Principle
Card Authentication	Use authenticated IC card to start charging session card. The IC card must be whitelisted in backend platform and EVSE must always connect to the backend
Card Not Authentication	Use the IC cards from charger accessories to start charging session. No authentication.
Local PnC	Once plug in the charger connector, the charging session automatically begins without any authentication.
AutoCharge	Similar to PnC mode, but with MAC code authentication. The MAC Code of the EV must be registered in backend.



## 4. Parameter configuration

### Connector and Output power configuration

According to the use scenarios and grid capacity, output power of DC connector can be individually configured .

- Maximum Voltage
- Minimum voltage
- Maximum current
- Maximum power

The screenshot displays the 'EVSE 1' configuration page. On the left is a dark sidebar with a 'Contents' menu listing: Quick Setup, Software Configuration, CP Configuration (highlighted in orange), CP Status, Power Unit Configuration, Power Unit Status, SmartOPS, and Upload And Download. The main area is divided into two panels: 'Conn 1' and 'Conn 2'. Each panel contains two columns of settings. For 'Conn 1', the settings are: Gun Type (CCS2), Maximum Voltage (1000V), Minimum Voltage (150V), Maximum Current (200A), Maximum Power (60kW), Maximum Temperature (90°C), Meter (Type B), Insulation Board (Enable), PLC Board (Type A), Pre-Precharge (Linknow), GunTemp Policy (Disable), Safepower Enable (Disable), and Gun Safepower (60kW). For 'Conn 2', the settings are: Gun Type (CHAdeMO), Maximum Voltage (500V), Minimum Voltage (150V), Maximum Current (125A), Maximum Power (60kW), Maximum Temperature (90°C), Meter (Type B), Insulation Board (Enable), PLC Board (Type A), Pre-Precharge (Linknow), GunTemp Policy (Disable), Safepower Enable (Disable), and Gun Safepower (60kW).

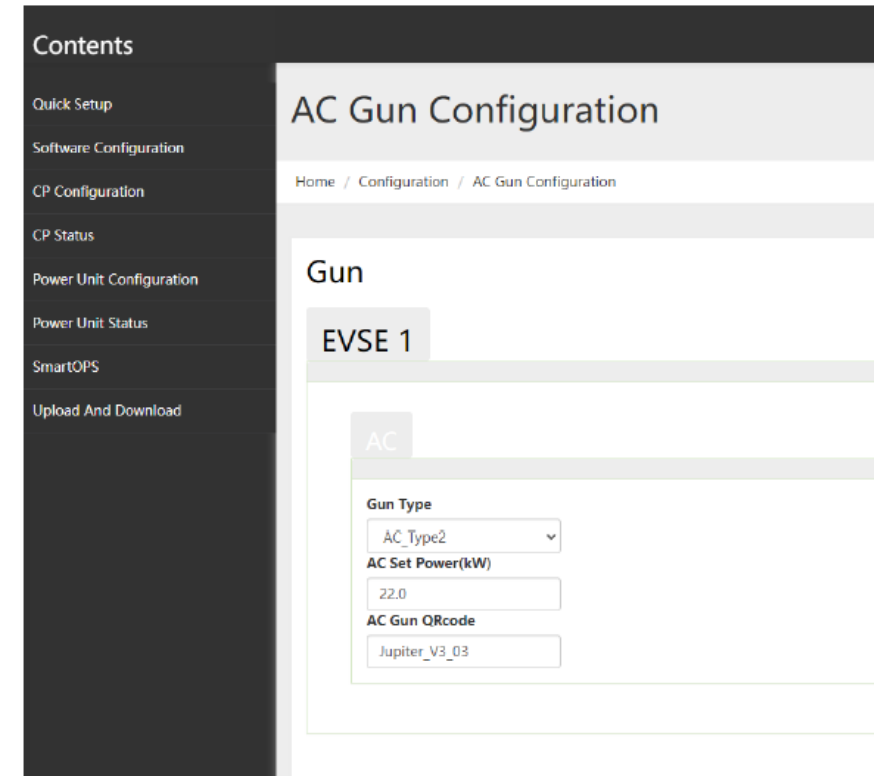


## 4. Parameter configuration

### Connector and Output power configuration

According to the use scenarios and grid capacity, output power of AC connector can be individually configured .

- Maximum power



The screenshot displays the 'AC Gun Configuration' web interface. On the left is a dark sidebar with a 'Contents' menu listing: Quick Setup, Software Configuration, CP Configuration, CP Status, Power Unit Configuration, Power Unit Status, SmartOPS, and Upload And Download. The main content area has a title 'AC Gun Configuration' and a breadcrumb 'Home / Configuration / AC Gun Configuration'. Below this, there are nested tabs: 'Gun' (selected), 'EVSE 1', and 'AC'. The 'AC' tab contains three configuration fields: 'Gun Type' (a dropdown menu showing 'AC\_Type2'), 'AC Set Power(kW)' (a text input field showing '22.0'), and 'AC Gun QRcode' (a text input field showing 'Jupiter\_V3\_03').





## 4. Parameter configuration

### Power module configuration

Configure the Power Unit as follow:

The screenshot shows a web application for 'Power Unit Configuration'. On the left is a dark sidebar with a 'Contents' menu. The main area has a title 'Power Unit Configuration' and a breadcrumb 'Home / Configuration / Power Unit Configuration'. Below the title is a 'Common' section with several configuration fields. At the top right of the main area are 'Language' and 'User Set' dropdowns. The configuration fields are organized into three columns under radio button selections: '180\_relay', '180\_pdu', and '360\_pdu'. The '180\_relay' column includes 'Module Layout' (dropdown), 'PDU Type' (dropdown), and 'Fan Type' (dropdown). The '180\_pdu' column includes 'Gun Amount', 'PDU Amount', and 'Power Unit ID'. The '360\_pdu' column includes 'Power Unit Amount' and 'PDU Relay Amount'. A 'Maximum Power(kW)' field is on the right. 'Submit' and 'Refresh' buttons are at the bottom right.

Configuration Item	Value
Module Layout	Hand In Hand
PDU Type	SCII
Fan Type	PWM
Gun Amount	2
PDU Amount	2
Power Unit ID	undefined
Power Unit Amount	1
PDU Relay Amount	2
Maximum Power(kW)	60.0



4. Parameter configuration

Power module configuration

Configure the Power Unit as follow:

Contents

Quick Setup

Software Configuration

CP Configuration

CP Status

Power Unit Configuration

Power Unit Status

SmartOPS

Upload And Download

Language User S

Fan Type

PWM

Power Unit ID

undefined

Submit

Refresh

Power Module

Under-voltage Protection(V)

200

Over-voltage Protection(V)

260

Module Amount

2

Module Type

StarCharge 30KW 1000V

Fan Mode

Type 2

Module SN	Group Number
1	1
2	2

Module SN	Group Number

Submit

Refresh



## 4. Parameter configuration

### Power module configuration

All power modules from factory have the same default sequence number A1 saved in hardware.

After inserting them into charger cabinet, during the first commissioning, technician needs to manually assign sequence number for each power module.

Set the power module sequence as the picture shown :  
From right to left: A1 to A2.



## 4. Parameter configuration

### Power module configuration

Workflow to set the power module number:

Step 1: disable door sensor. If the door sensor is active, the input power of power module will be automatically cut off, when the door is opened.

The screenshot displays the Starcharge commissioning interface. On the left is a dark sidebar with a 'Contents' menu. The main area is divided into two sections: 'Power Unit Configuration' and 'Sensor'.

**Power Unit Configuration:**

- Over-voltage Protection(V): 260
- Module Amount: 2
- Module Type: StarCharge 30KW 1800V
- Fan Mode: Type 2

Below these are two tables for configuring power modules. The first table has columns for 'Module No.', 'Module Name', and 'Module Type'. The second table has columns for 'Module No.', 'Module Name', 'Module Type', and 'Module Status'. Both tables are currently empty.

**Sensor:**

- Temperature Sensor: Enable
- Water Level Sensor: Enable
- Tilt Sensor: Enable
- Fuse Enable: Enable
- Temperature Threshold(°C): -60
- Door Sensor: Disable (highlighted with a red box)
- Circuit Breaker Sensor: Disable
- AC Relay Enable: Disable

Both sections have 'Submit' and 'Refresh' buttons at the bottom right.

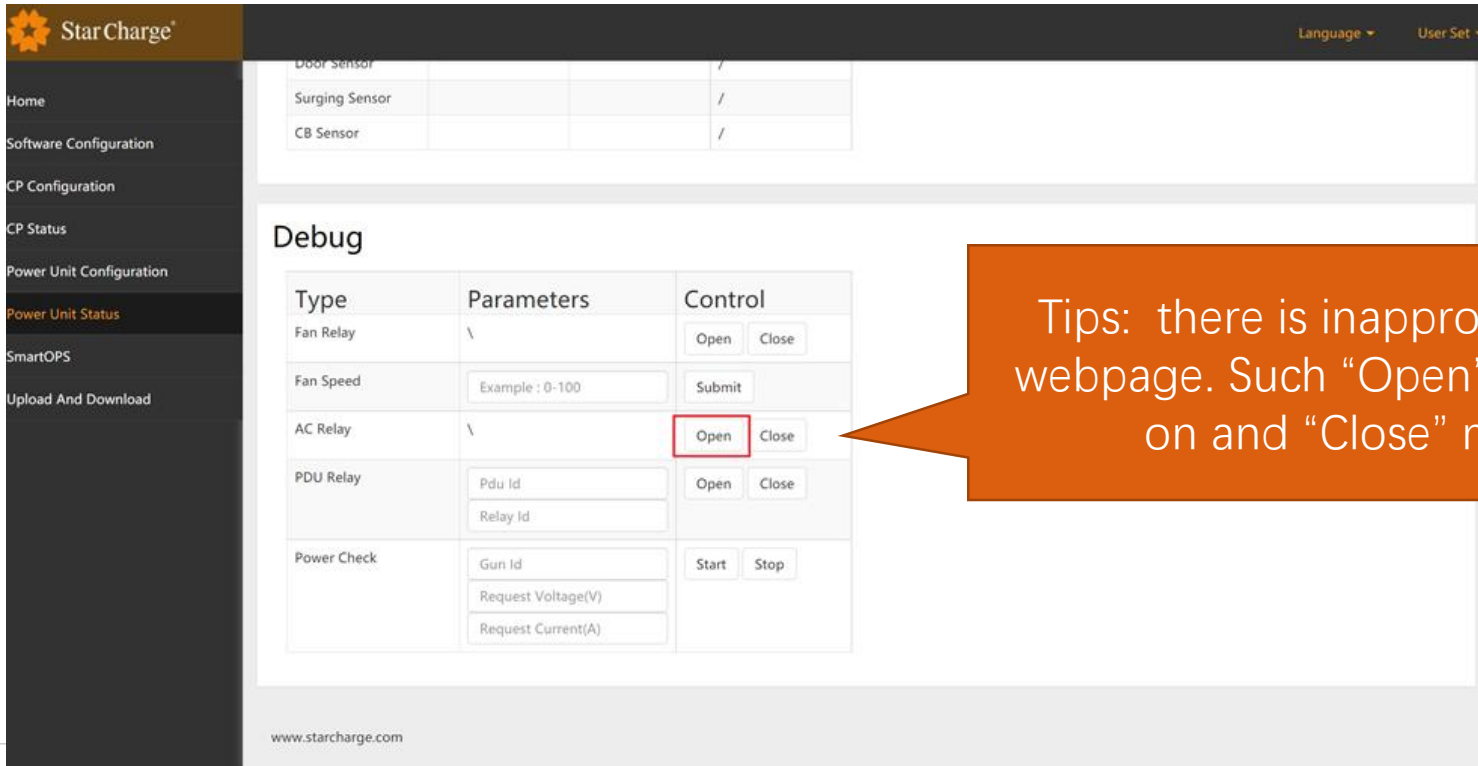


## 4. Parameter configuration

### Power module configuration

Workflow to set the power module number:

Step 2: Open the AC relay to manually turn on the supply power for power module.



The screenshot shows the Star Charge web interface. The left sidebar contains navigation links: Home, Software Configuration, CP Configuration, CP Status, Power Unit Configuration, Power Unit Status (highlighted), SmartOPS, and Upload And Download. The main content area is titled 'Debug' and contains a table with the following data:

Type	Parameters	Control
Fan Relay	\	Open Close
Fan Speed	Example : 0-100	Submit
AC Relay	\	Open Close
PDU Relay	Pdu Id Relay Id	Open Close
Power Check	Gun Id Request Voltage(V) Request Current(A)	Start Stop

The 'Open' button for the AC Relay is highlighted with a red box. The URL 'www.starcharge.com' is visible at the bottom of the page.

Tips: there is inappropriate translation in webpage. Such “Open” actually means turn on and “Close” means turn off.



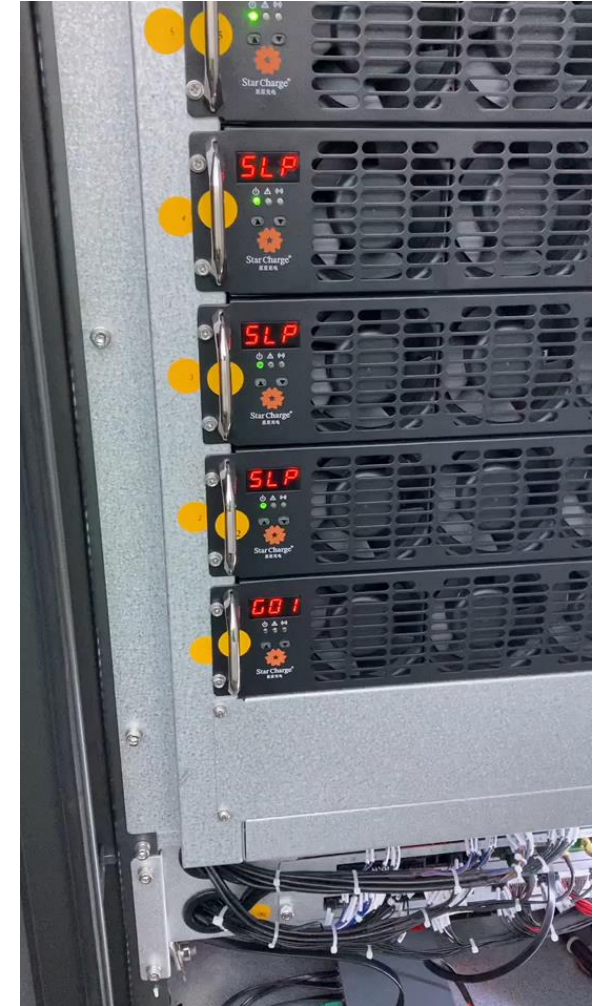
## 4. Parameter configuration

### Power module configuration

Workflow to set the power module number:

Step 3: click the button on power module to set the sequence number

1. Press ▲ or ▼, change the interface;
2. Press and hold ▼ for about the 3s, the value will be flashing;
3. Press ▲ or ▼ to change the value;
4. Press and hold ▼ for about 3s to save the value.



4. Parameter configuration

Power module configuration

Workflow to set the power module number:

Step 4: close AC relay.

Step 5: enable the door sensor

Star Charge

Home

Software Configuration

CP Configuration

CP Status

Power Unit Configuration

Power Unit Status

SmartOPS

Upload And Download

Door Sensor

Surging Sensor

CB Sensor

Debug

Type	Parameters	Control
Fan Relay	\	Open Close
Fan Speed	Example : 0-100	Submit
AC Relay	\	Open Close
PDU Relay	Pdu Id Relay Id	Open Close
Power Check	Gun Id Request Voltage(V) Request Current(A)	Start Stop

Star Charge

Language

Home

Software Configuration

CP Configuration

CP Status

Power Unit Configuration

Power Unit Status

SmartOPS

Upload And Download

Protection(V)

260

Module Amount

6

Module Type

StarCharge 30KW

2

3

4

5

6

2

3

4

5

6

Submit

Refresh

Sensor

Temperature Sensor

Disable

Water Level Sensor

Disable

Temperature Threshold(°C)

Door Sensor

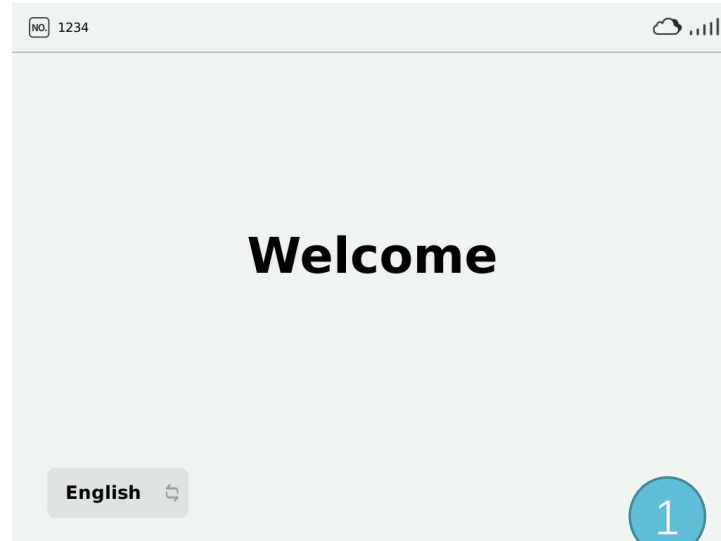
Enable

Submit

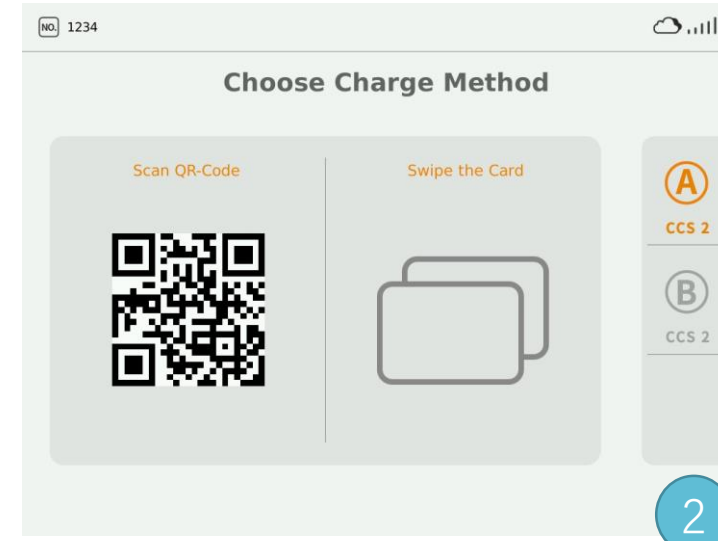
Refresh

www.starcharge.com

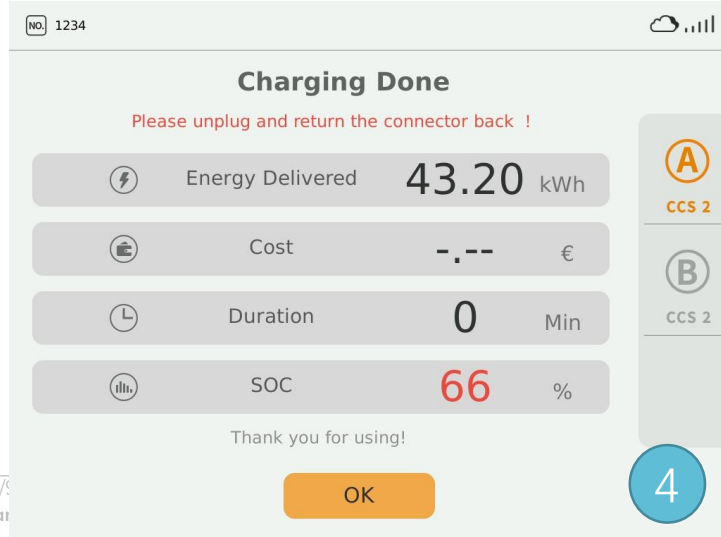
## 5. Charging test



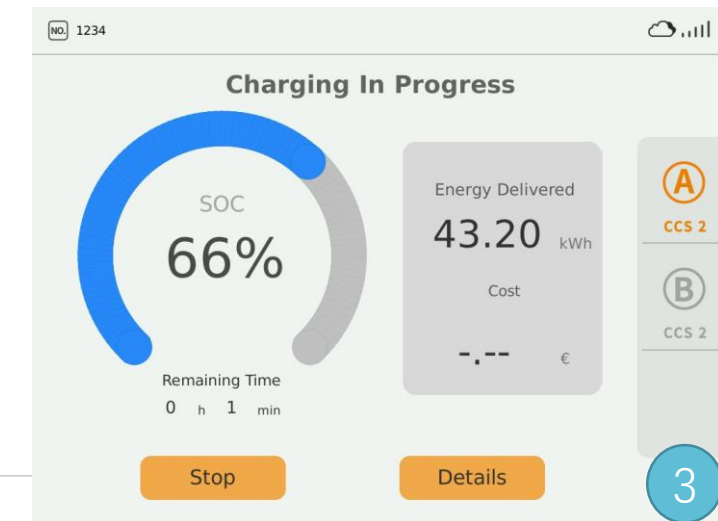
Plug charger gun into EV



Swipe RFID card or use App to start



Swipe RFID card or use App to stop





## 5. Charging test

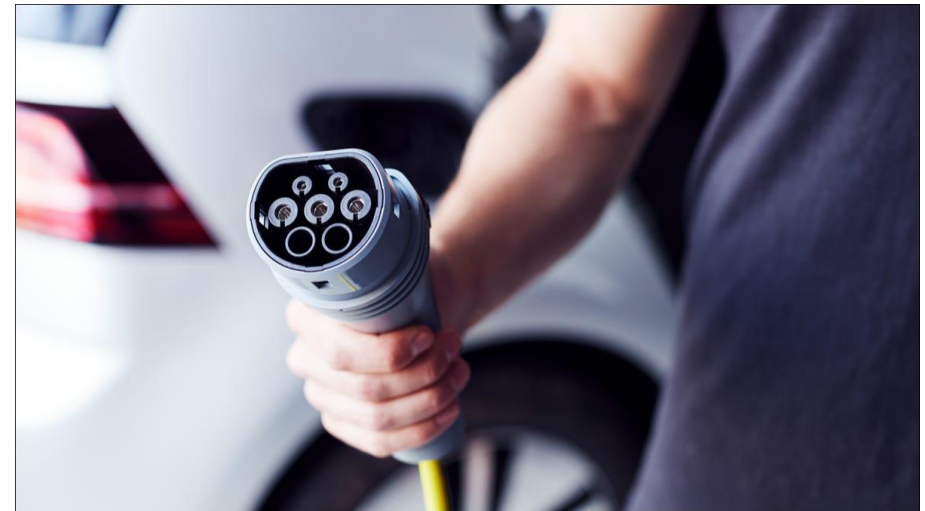
### **During the charging session, check / test following items**

1. Door sensor: Open the door of EVSE when charging, the EVSE should stop charging.
2. Emergency stop: Press the emergency stop button on the EVSE when charging, the EVSE should stop charging.
3. Ventilator: Check the wind speed and direction of fan of inside.
4. Meter: Check whether the meter measures accurately during charging.
5. Connector cable: There is no sharp edges, no overheating, no loosen insulation cap of the charger cable. The charging cable is neither too tight nor too loose when inserting and pulling out the charging cable.



## 6. Customer Training and finishing commissioning report

- After the commissioning work for the EVSE, engineer should give a basic training related to the main characteristics of the EVSE to guide the customer how to use EVSE. The training content should cover safety knowledge, basic charging procedure etc.
- Last and not least, the commissioning report needs to be finished after whole work.  
(Template refers to appendix 2 of commissioning manual)





# Thank You.

Connect the World. Connect the People.



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[www.starcharge.com](http://www.starcharge.com)