Star Charge

Star Charge
Installation & Commissioning of Aurora 7/11kW

Star Charge

Agenda

- Installation Workflow
- Commissioning Workflow

Installation Workflow

Tools required

Percussion drill

Bit type:

Ø8.0mm

Electric screwdriver

Screw Bit type:

PH2 & T30

Measuring tape

Marking pen

Hammer

Knife

Wire crimpers

Adjustable wrench

Installation Workflow

Tap expansion bolts into the wall

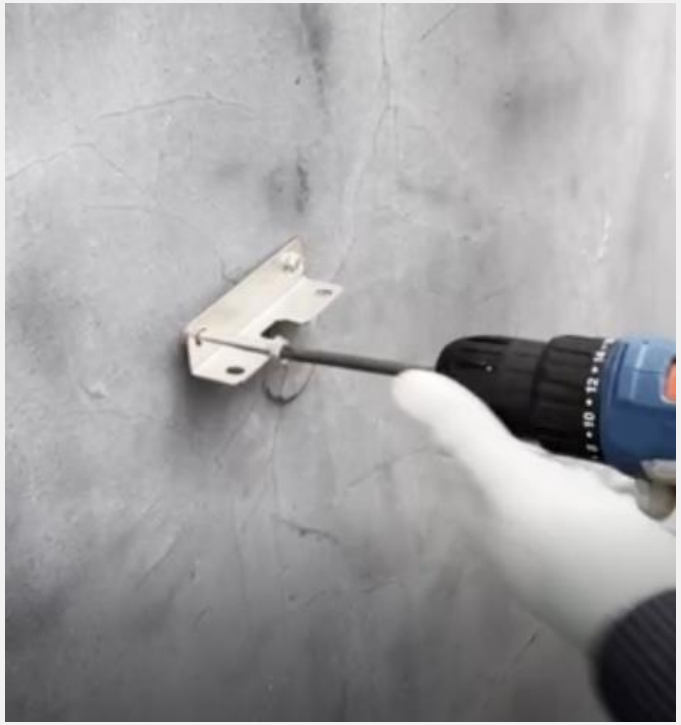
Use the positioning board (included in the charger package) to mark the mounting hole on the wall

Drill four holes in the wall with
- diameter of 8mm
- depth of 62mm

Tap the expansion bolts into the hole.
(The expansion bolts are not included in the charger package and need to be prepared by user)

Installation Workflow

Install mounting bracket



Fix the mounting bracket to the lower screw holes

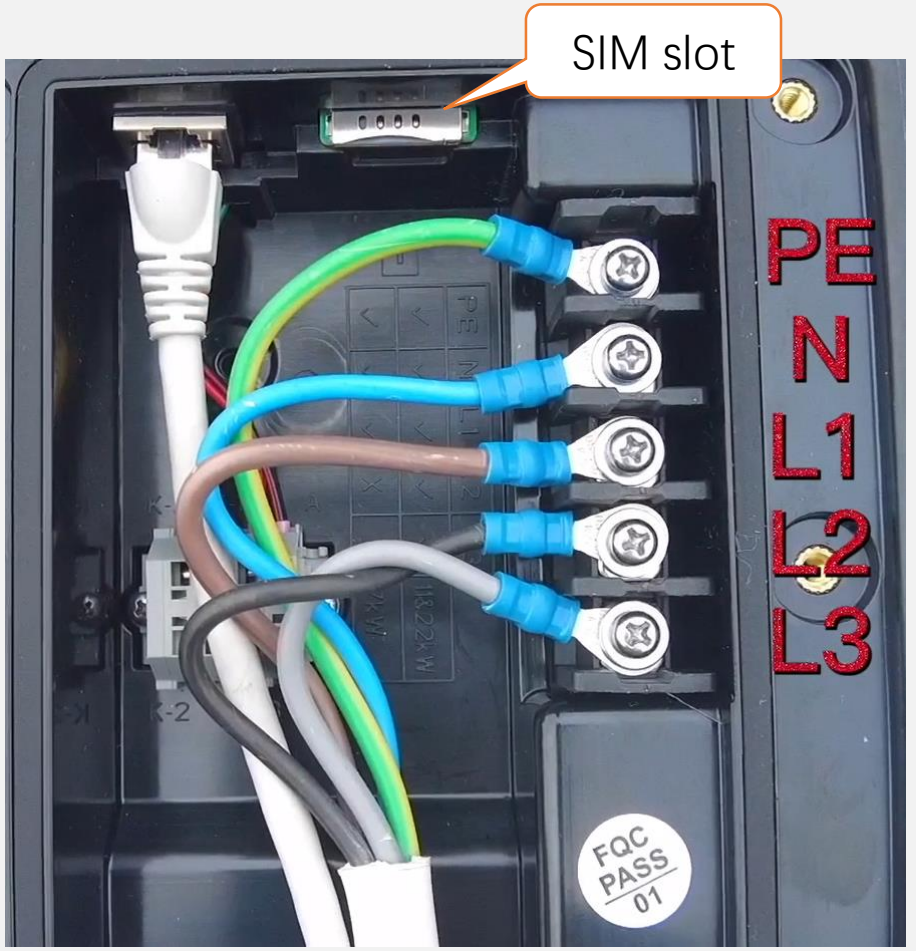
Insert screws into the upper screw holes (expose 7mm of the screw head.)

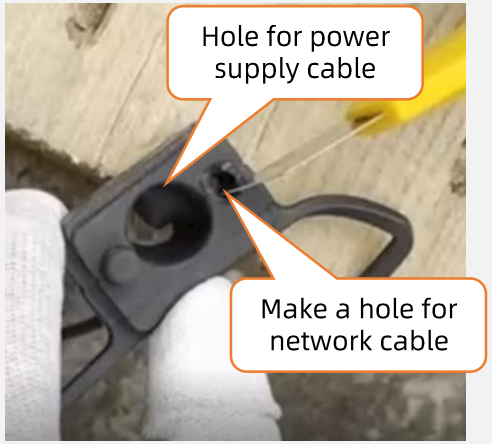
Installation Workflow

Connect input power supply cable
Connect network cable (optional)
Insert sim card (optional)

Connect the power supply cable to charger. Please pay attention to the cable sequence (PE,N,L1,L2&L3) .The screw locking torque is 1.2 ~ 1.4 nm

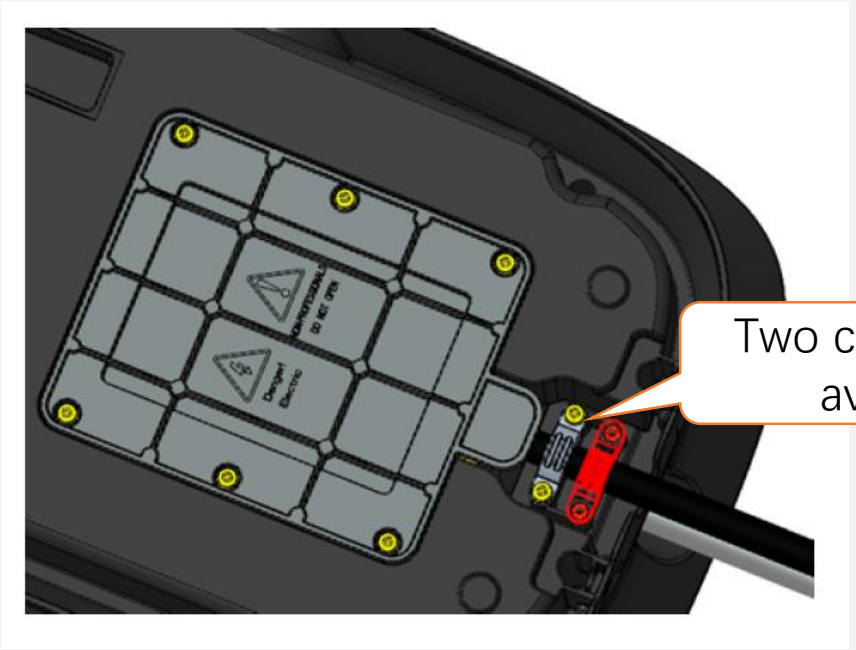
If SIM card is used for internet connection, insert the SIM card in the sim card slot.
If network cable is used for internet connection, connect the Ethernet cable to the corresponding socket. To thread the network cable into charger, you need to cut the rubber bulge and make an additional hole for network cable.





Installation Workflow

Install the back cover and crimp the cables

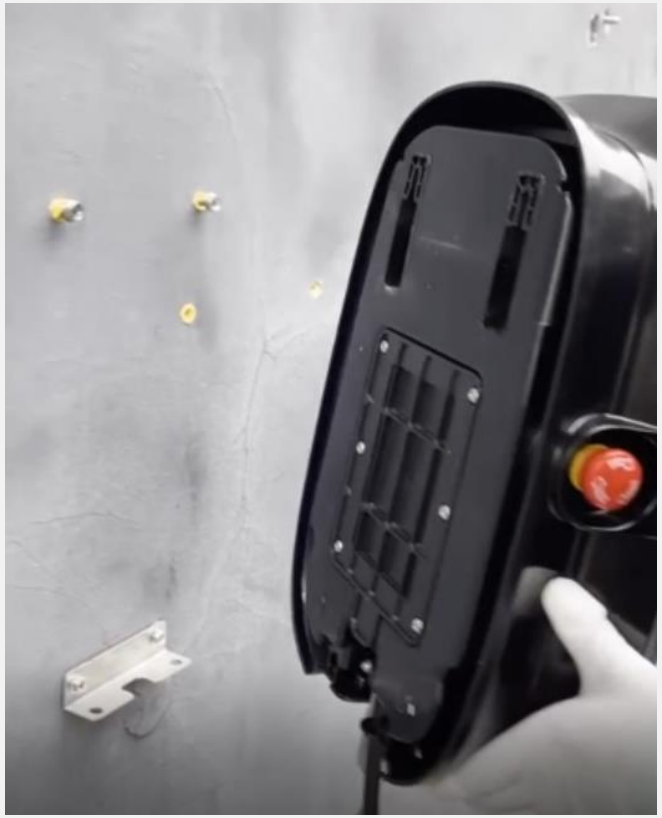


For the commissioning the technician needs to connect the charger with laptop via network cable to configure some charger parameters. So, before you install the back cover, you can first follow commissioning steps to finish the software configuration.

Use six M4*12 screws to install the back cover two M4*12 screws to tighten the crimping ferrule. Note: there are two positions for the crimping ferrule, depending on the thickness of the input cable (upper one for thin cable, lower one for thick cable)

Installation Workflow

Mounting charger on the wall



Hang Aurora on two upper screws

Press charger down to fix the screw in the slot

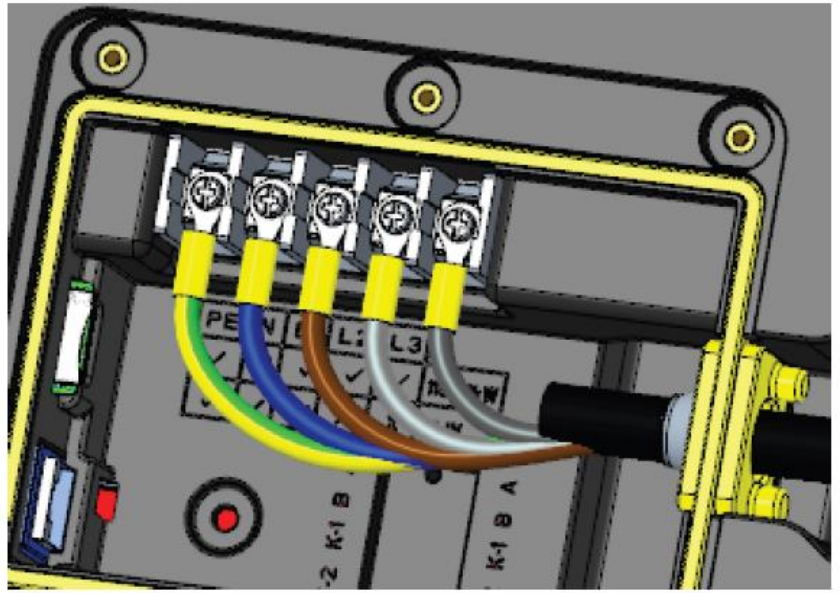
Fix the mouting bracket with charger

Installation Workflow

Mounting charger on pole (optional)

Beside mounting on wall, Aurora can be also installed on a pole.

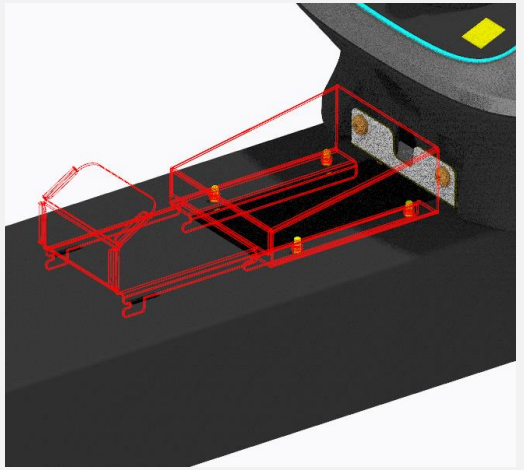
1. Lay the column on the ground.
2. Thread the power supply cable through the hole at bottom into pole.
3. Connect the power supply cable to the charger.
4. Mount charger to the pole.

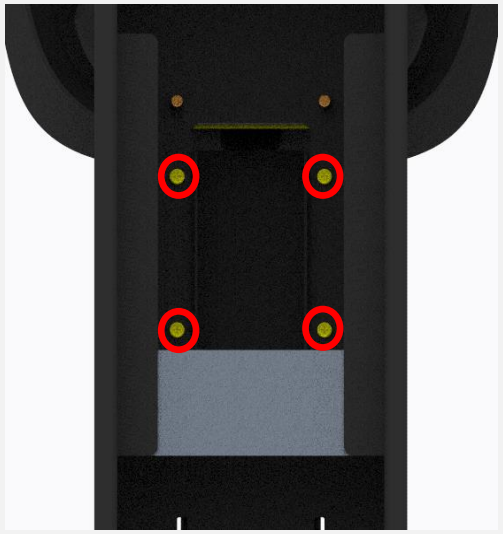


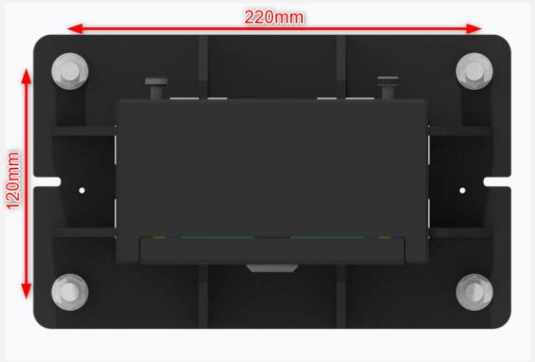
Installation Workflow

Mounting charger on pole (optional)

5. Mount the cable hook and install the back cover
6. Fix pole on the ground with 4 expansion bolts
   (bolts are not included in pole package)







Commissioning Workflow

Tools required

No	Description	Picture
1	Laptop	
2	Ethernet Cable	
3	Adapter	
4	Screw drivers	

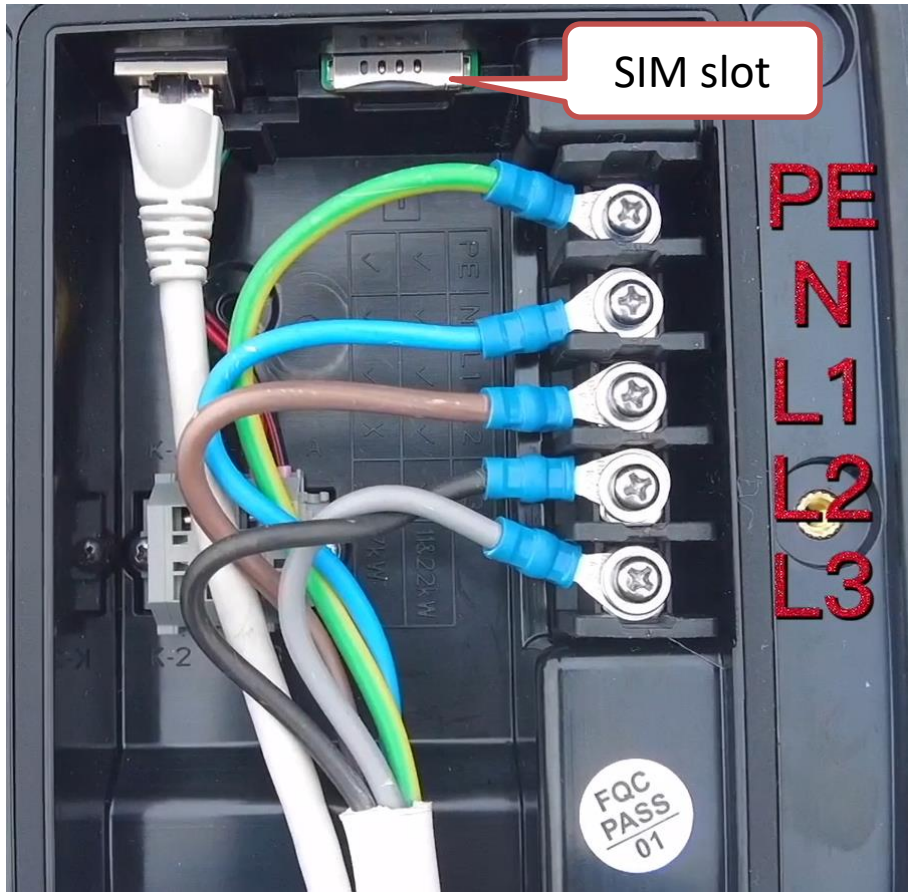
Commissioning Workflow

Star Charge

Preparation

To configure the software parameter, please connect Aurora with a laptop via network cable.

If SIM card is used for internet connection, please insert the SIM card in the SIM slot

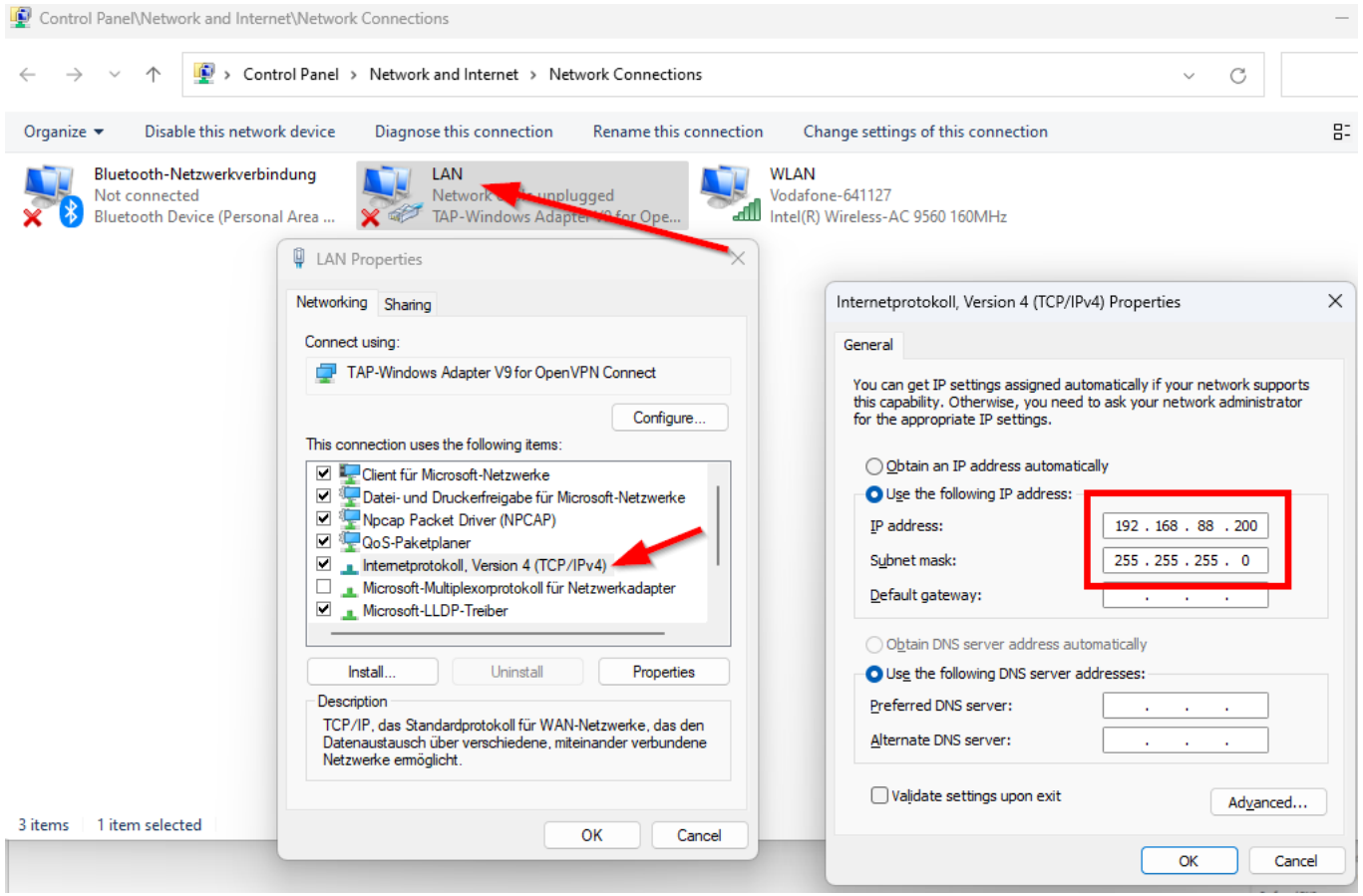


Commissioning Workflow

Preparation

To access the web panel, you need to first configure the IP address of your laptop:

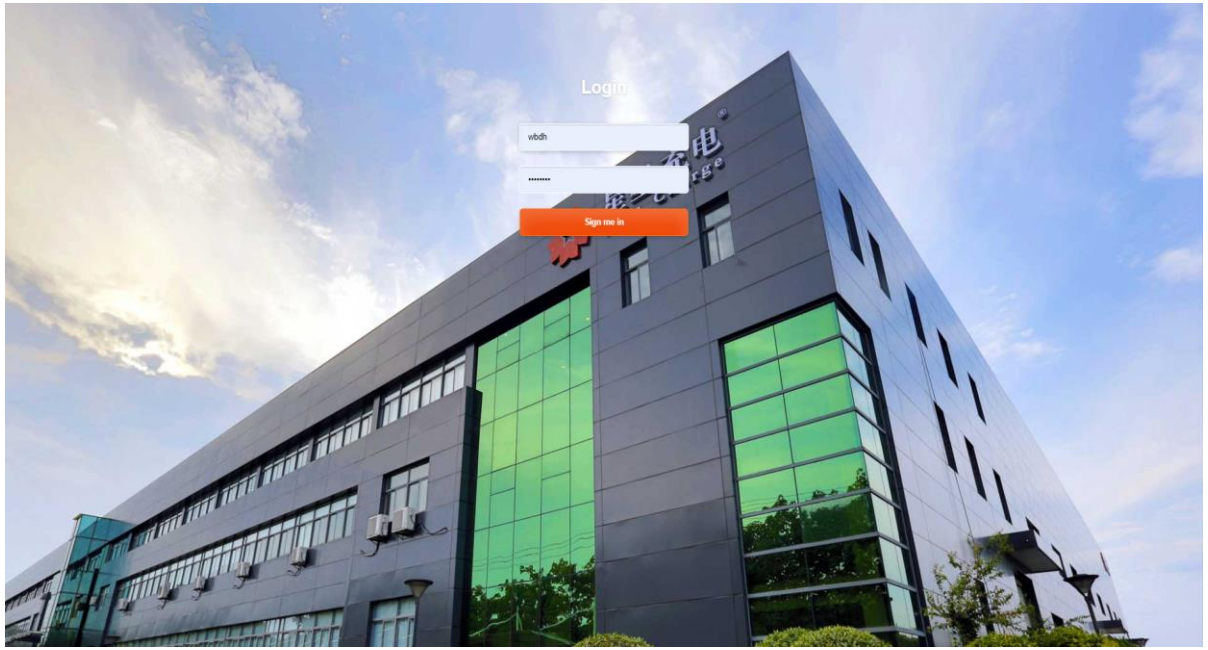
- In Windows →Control Panel\Network and Internet\Network Connections
- Select the adaptor you are using and set the IP address to 192.168.88.200 and subnet mask to 255.255.255.0 as below:



Commissioning Workflow

Log into web panel

- Open a browser (Chrome or Edge)
- Enter IP address 192.168.88.206
- User account
  - Username : xxcd
  - Password : 28912891

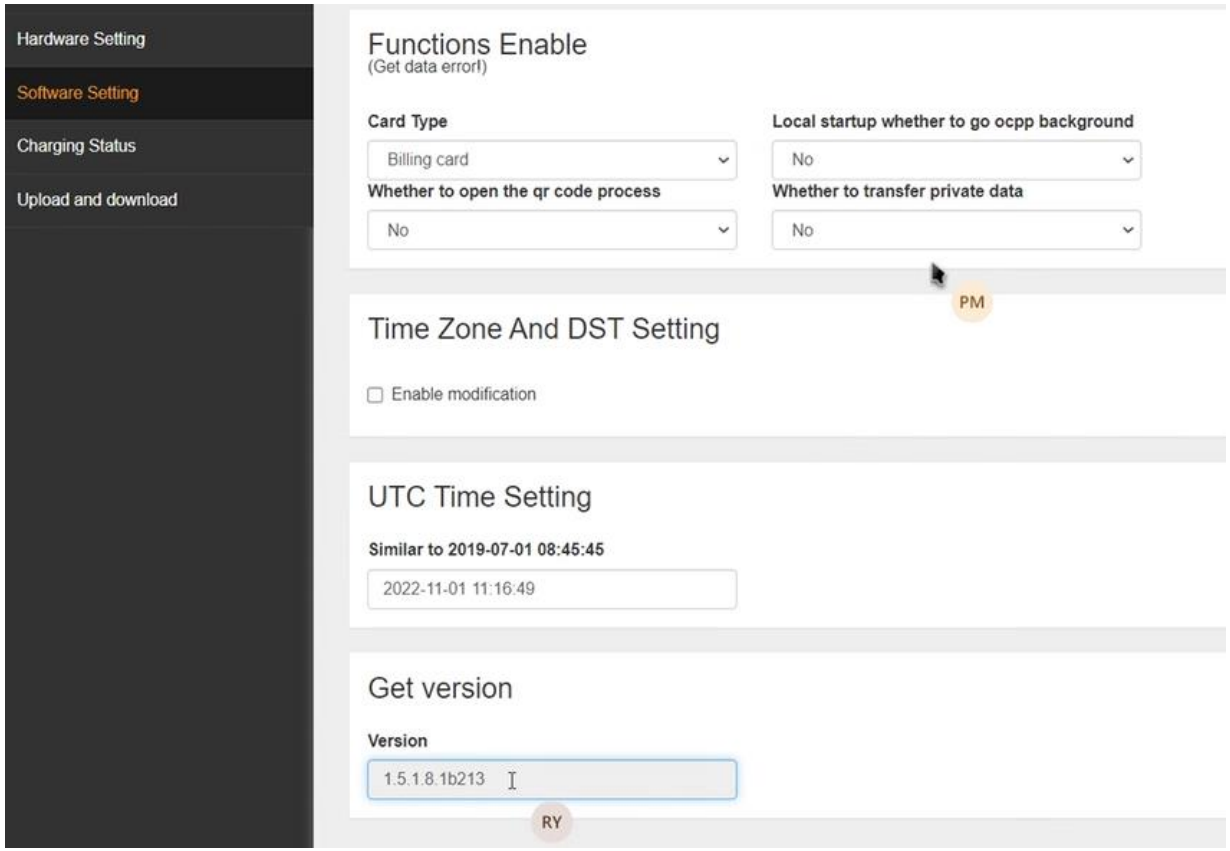


Commissioning Workflow

Check and update firmware

Before the parameter configuration, first you need to check the firmware version in the charger. If the charger is produced long time ago, the firmware inside could be outdate and needs to be update to avoid known software issues.

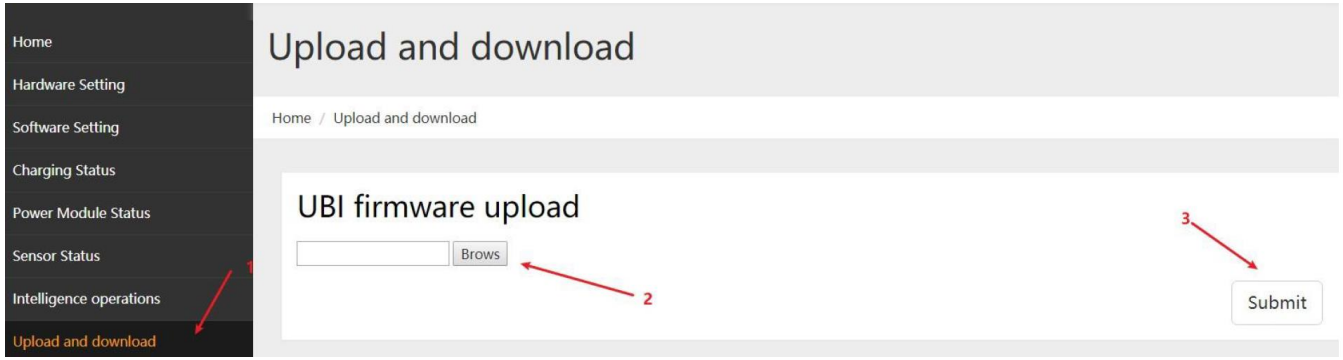
Click “Software setting“ and check the version in “Get version “

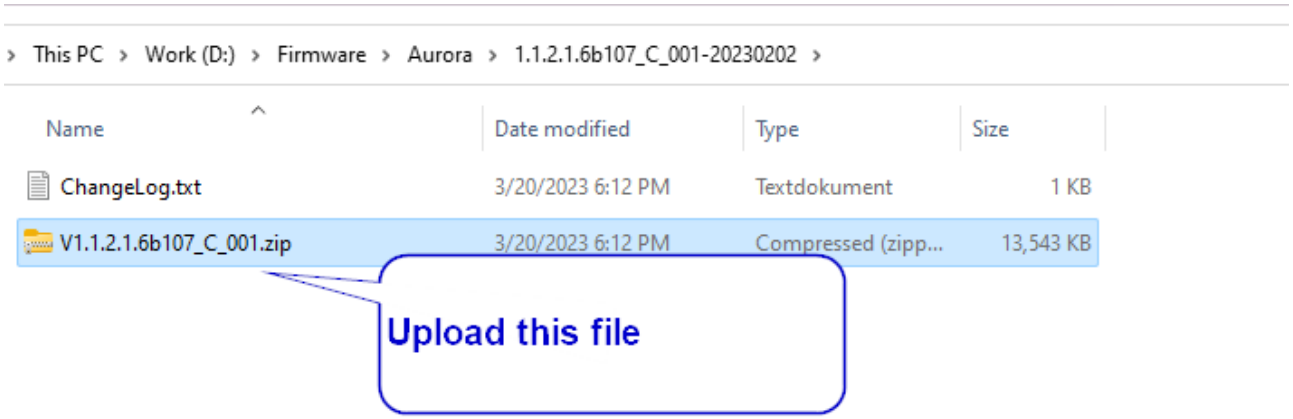


Commissioning Workflow

Check and update firmware

If the firmware version is not the newest version (StarCharge engineer will inform you the release info), please click “Upload and download “ → UBI firmware update. Then upload the firmware file provided by StarCharge.

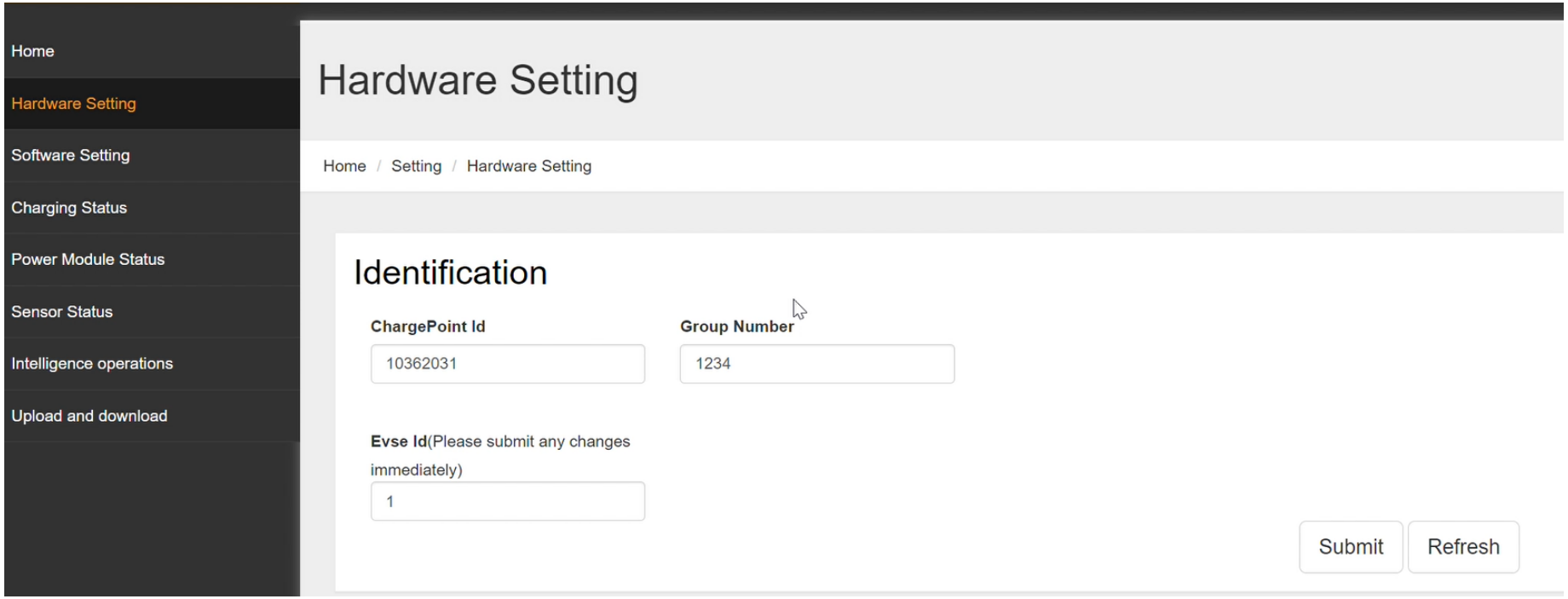




Commissioning Workflow

Configure the hardware setting

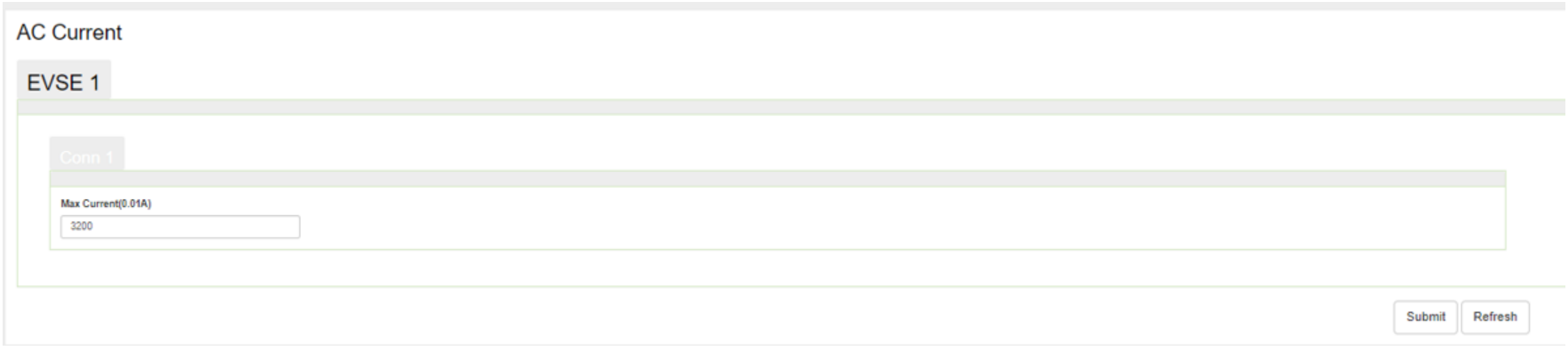
- Click “Hardware Setting”
- ChargePoint Id: if the charger needs to be connected to a backend platform, please enter here the charger ID.
- Others is default setting



Commissioning Workflow

Configure the hardware setting

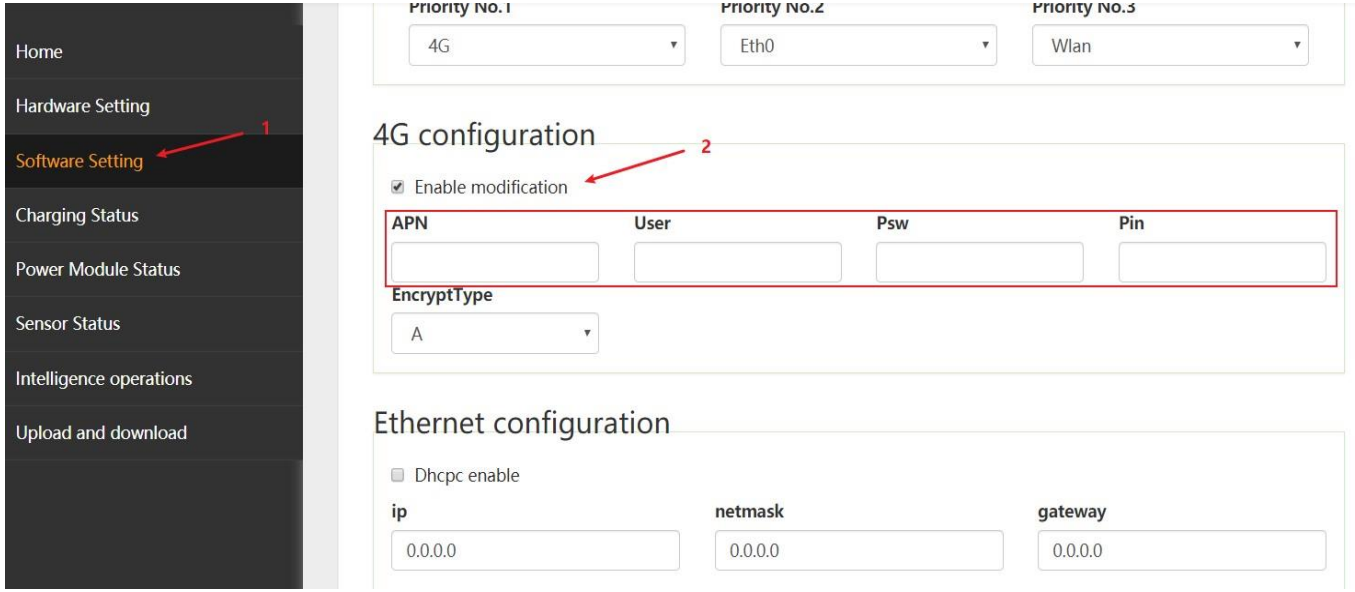
- AC Current: if you want to limit the output power of Aurora, you can reduce the value.
  - For Aurora 7kW, the max value is 3200 (each power phase 32A)
  - For Aurora 11kW, the max value is 1600 (each power phase 16A)



Commissioning Workflow

Configure the software setting

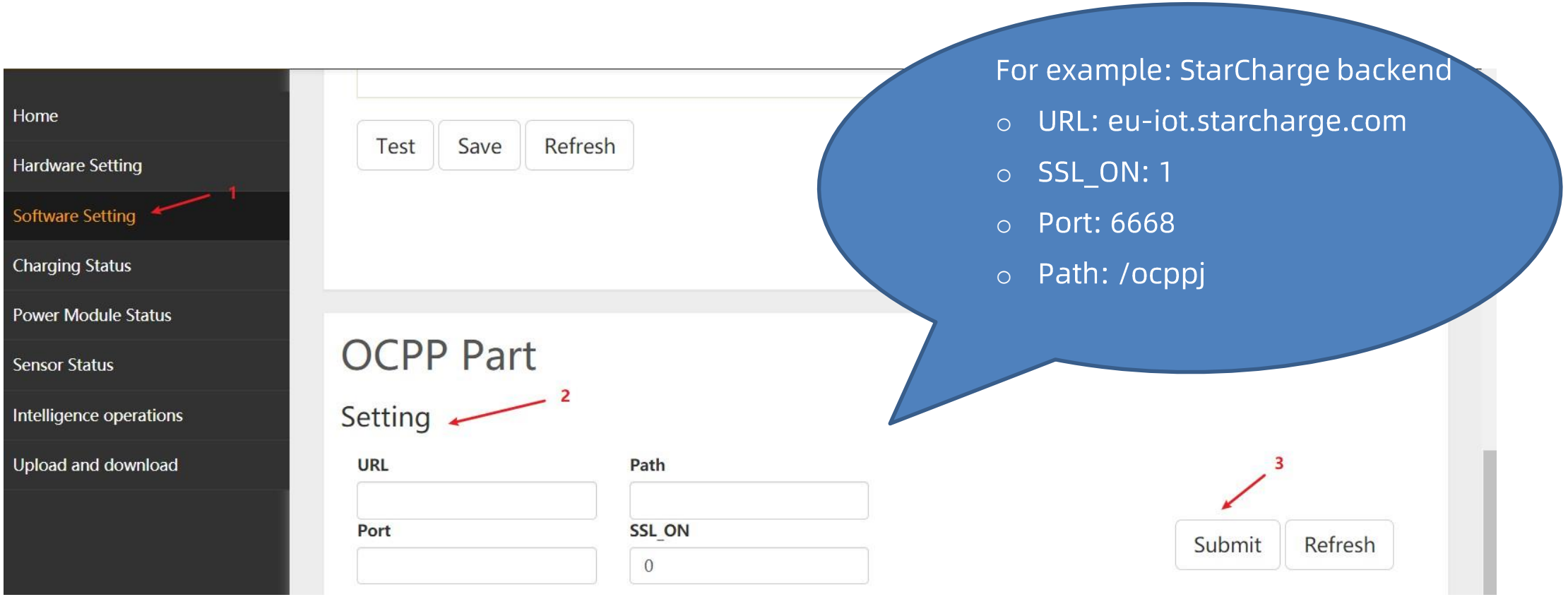
- Click “Software Setting”
- 4G configuration: If SIM is used for internet connection, please enter the APN, USER, PSW and PIN of the SIM card.
- Beside 4G, Aurora also support Ethernet and WIFI for the internet connection. In this page, you can find corresponding settings.



Commissioning Workflow

Configure the software setting

- OCPP: If the charger needs to be connected to a backend platform, please enter the URL of the backend platform.

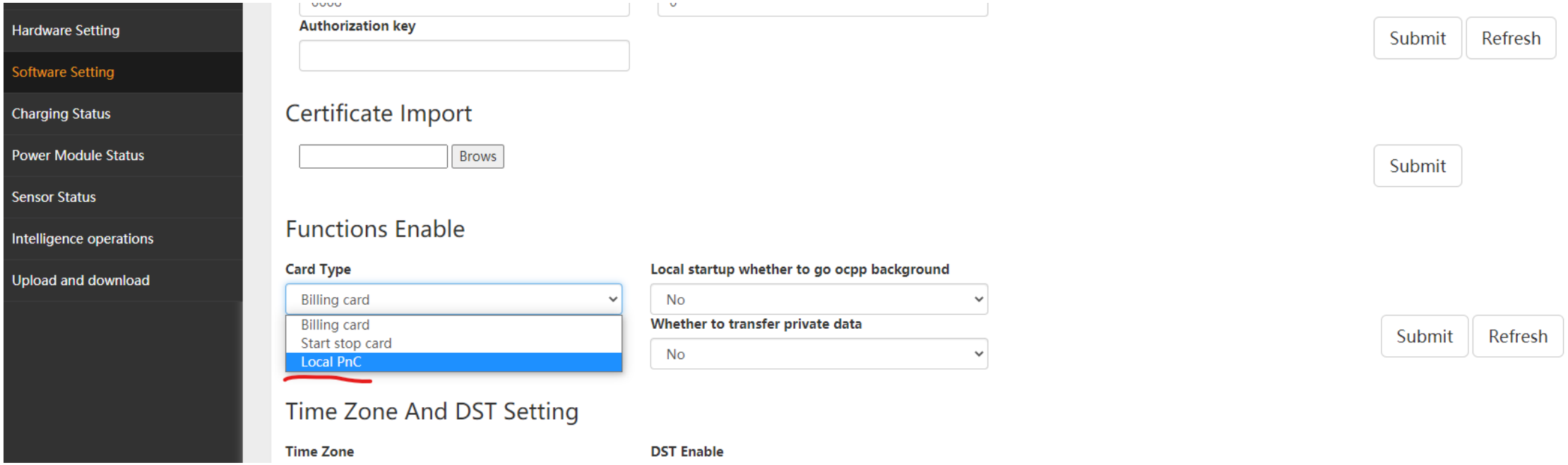


Commissioning Workflow

Configure the software setting

Select the card type:

- Billing card: 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. This is for backend.
- Start stop card: 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.



Commissioning Workflow

Check the connection status

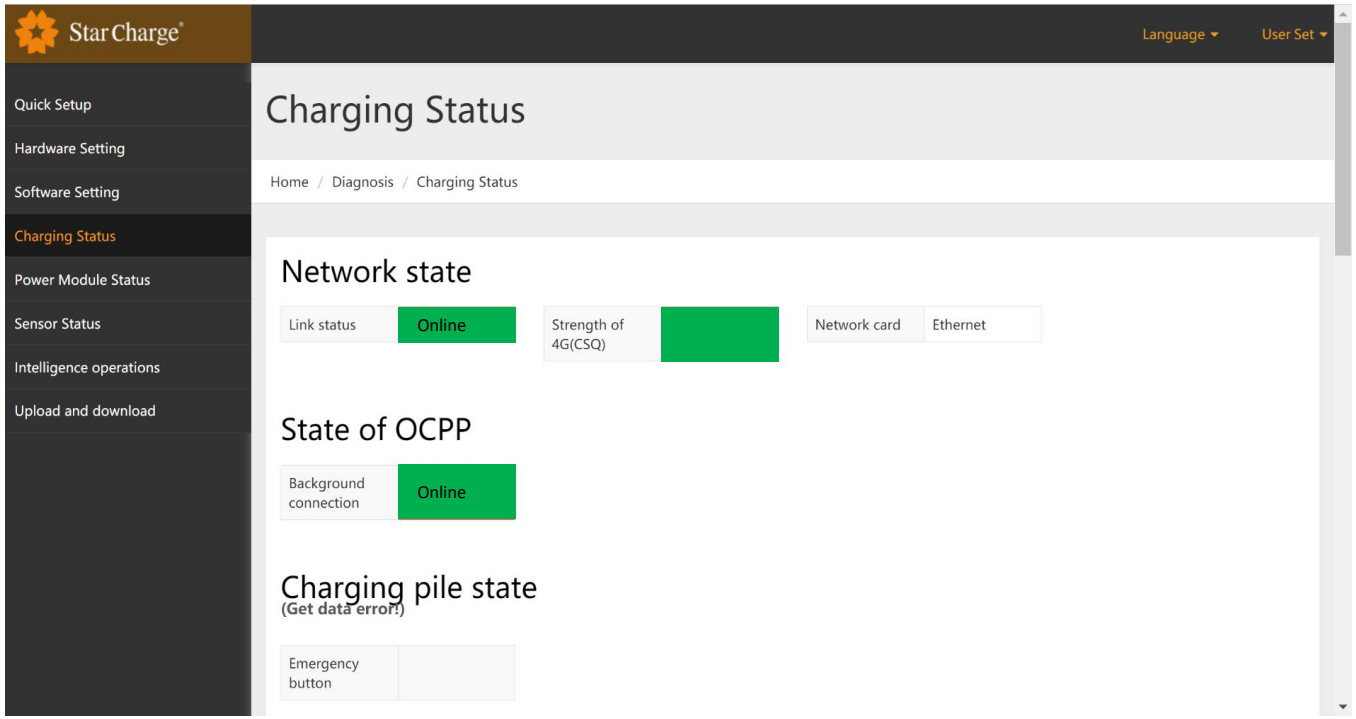
Click “Charging Status”, observe the connection status.

Link status: internet connection

Strength of 4G: LTE signal quality

Network card: which connection method is used, 4G, Ethernet or Wifi

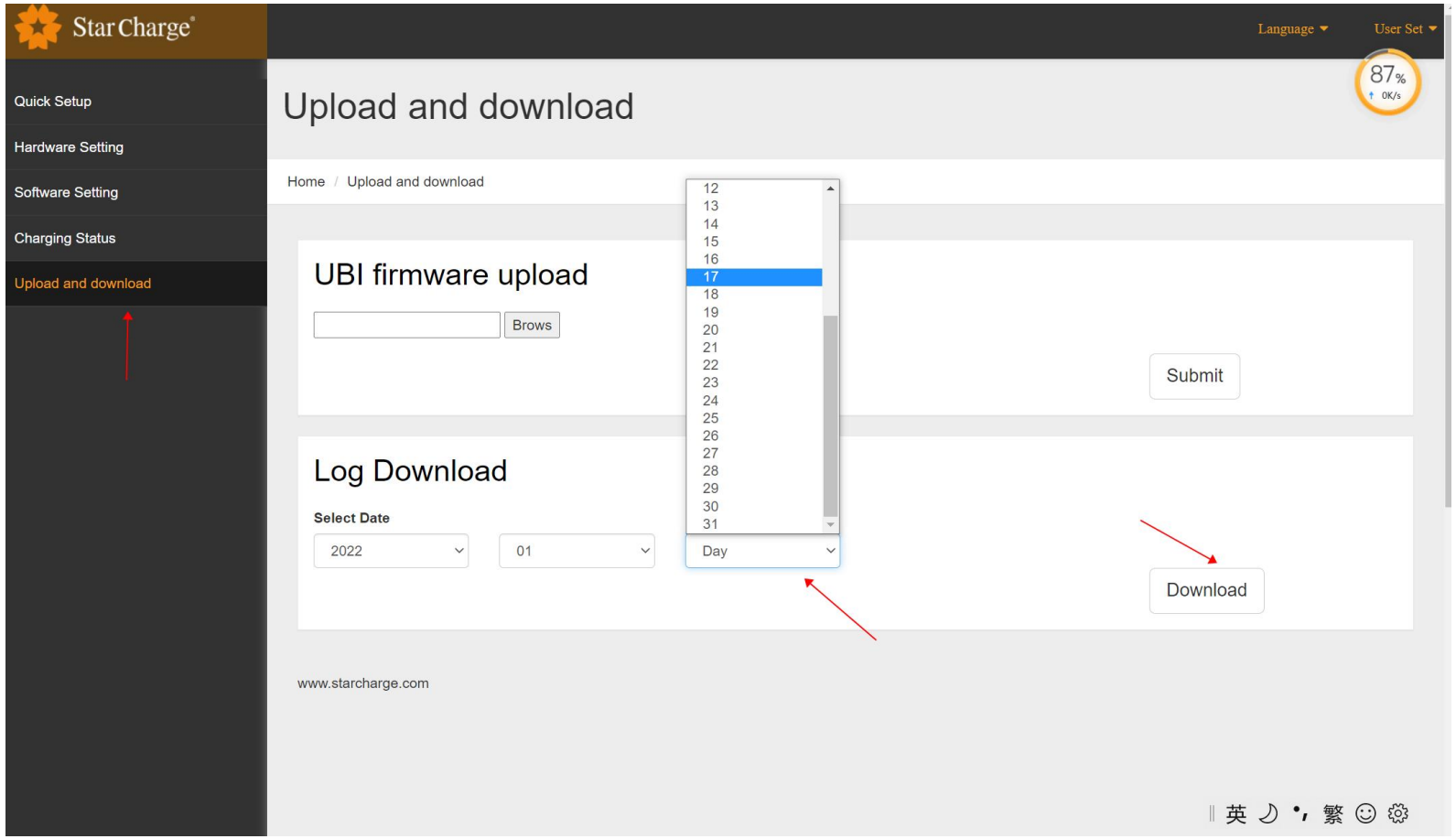
Background connection: connection with the backend platform



Download Log file

If any charger issue happens, please provide log file to service.europe@starcharge.com

You can download log in “Upload and download” → “Log Download” → select date and download .



Thank U

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