



## **Venus EV charger Installation Guide**

*NOTICE: This manual contains the latest information at the time of printing. The manufacturer reserves the right to make changes to the product without further notice to the purchaser. Changes or modifications to this product by any person or entity other than an authorized service facility will void the product warranty. If you have questions about the use of this product, contact your customer service representative.*



## **RETURN FOR SERVICE**

If you encounter operational or other problems with the charger, contact your local dealer. If the problem requires return for service, please follow the dealer's instructions for return of the product.



## **SAVE THESE INSTRUCTIONS**

The purpose of this manual is to provide you with information necessary to safely operate this equipment. Keep this manual for future reference.

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# Introduction

The installation guide applies to 32-Amp mode 3 according to IEC61851-1 AC Charging.  
The installation guide includes configurations below.

- a. General European models
- b. UK models
- c. All of three-phase models are able to be set in the single-phase power system.

## Product view

Different models of Venus chargers:

### Business models:



### Home advanced models:



# Specifications

Specification	Europe		UK	
	Business	Home Advanced	Business	Home Advanced
Charger dimension (H x W x D)	365 x 365 x 179.95mm			
LED indicator for EVSE status	Please refer to page.28 ,Charger status and indicator light pattern			
LED indicator for online status (Internet connection for end user)	Please refer to page.28 ,Network status Indicator			
5 inch IPS display	Yes	No	Yes	No
Application	Commercial	Residential	Commercial	Residential
Current	32A max.	32A max.	32A max.	32A max.
Voltage , Single-Phase	220Vac to 240Vac , 1P+N+PE			
Max output power	7.4KW (1Ø)			
Voltage , Three-Phase	380Vac to 415Vac, L1+L2+L3+N+PE * 220Vac to 240Vac, 1P+N+PE *The three-phase charger supports the setting on a single-phase power system.			
Max output power (Full-load)	22.2KW (3Ø), *7.4KW (1Ø) *Once the three-phase charger sets on a single-phase power system.			
Input frequency	50/60Hz			
Electrify system	TT, TN			
Electrify system	IT		No	
IEC 62196 cable type 2	Yes			
IEC 62196 socket type 2	Yes			
IEC 62196 shutter type 2	Yes			
Cable length	5m			
Protection type	IP55			
Protect against mechanical impact	IK10			
Operation Temperature	-35 to +55°C			

Operation Altitude	0 to 4000m		0 to 2000m	
On power-board ( $\pm 1\%$ accuracy)	Yes			
kWh meter ( MID certified )	Yes	No	Yes	No
RFID	ISO 1443 A	No	ISO 1443 A	No
Ethernet (10/100 BaseT)	Yes			
Ethernet daisy chain	Yes	No	Yes	No
Wi-Fi (802.11 b/g/n)	Yes			
LTE with 4G	Yes	No	Yes	No
Web portal - Configuration and maintenance	Yes			
RCD Type AC 30mA+DC 6mA	Yes			
Certification	Yes			
Certification	IEC 61851-1: 2017 ed 3.0 IEC 61851-21-2 RCD IEC 62955, IEC 61008 Radio Equipment Directive (RED) EN 18031-1 ( Cyber Security ) EN 18031-2 ( Cyber Security ) EN 18031-3 ( Cyber Security ) RCM EN17186 ACMA NBTC RoHS 2.0 REACH			
Certification			UKCA BS 7671 UK EV Regulation	



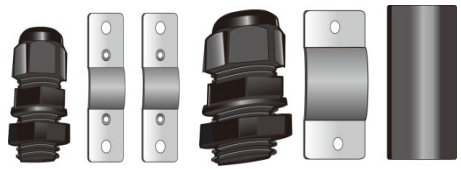
\* Radiation Exposure Statement:

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

# What's in the box

Your new Venus EV Charger contains the following items. If any of these items are missing or if you believe they've been damaged, call support immediately.

- a. Charging station (with the wall-mounting bracket)
- b. Cable clips
- c. Cable glands
- d. Screws
- e. Manual Card

Mounting screw	Manual Card
 <p>(The actual number of the screws provided here may vary.)</p>	
Cable glands/clips and rubber cover	
	

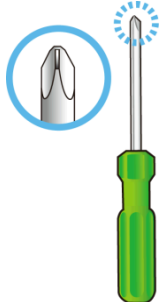
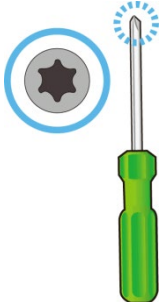
Keep the packaging material for possible future transportation or storage.



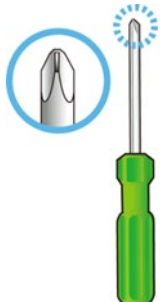

# Before you get started

Here are the tools you will need to install the EV Charger.

- a. One Phillips screwdriver (PH#2)
- b. One Torx screwdriver (T20)

Item	Phillips screwdriver (PH#2)	Torx screwdriver (T20)
		

For UKCA, one Torx screwdriver (T20) with pillar recess as mentioned in previous page.

Item	Phillips screwdriver (PH#2)	Torx screwdriver with pillar (T20)
		

In parallel, you might need these hole saws to cut off the enclosure knock out.

- c. One diameter 32mm hole saw for power cable from back-inlet demand.
- d. One diameter 25mm hole saw for Daisy-Chain connection demand.



# How is the EV Charger powered?

EV Charger can supply a maximum charge of 32A to the EV Requires a dedicated dual pole breaker. We recommend 40A.

**CAUTION:** To reduce the risk of fire, connect only to a circuit provided with 40 amperes maximum branch circuit over current protection in accordance with the local electrical codes.

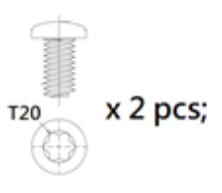
## Find a location for the EV Charger

- This device shall be mounted at a sufficient height between 0.5m and 1.5m from the floor.
- The distance from the vehicle allows slack for charging cable.
- Temperatures are between -35 to 55°C.
- The charger is within the range of Wi-Fi and LTE signal.
- If a socket outlet for charging plugged-in is planned, the distance from the socket outlet allows slack for the charging gun.

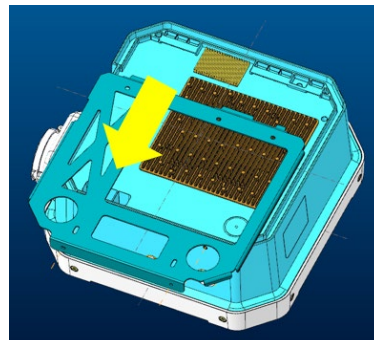
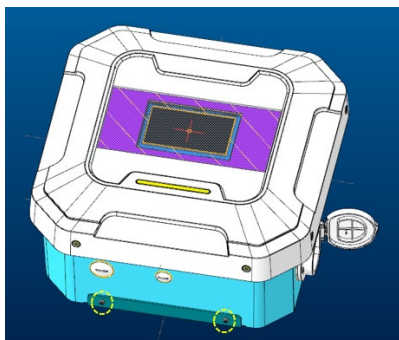
## Where is the bracket

When out of box, the mounting bracket is attached to the back of the charger. Here is how to take out the bracket.

1. Place the charger on a soft material surface with its face down.
2. Unscrew the fixing screw, as show below.

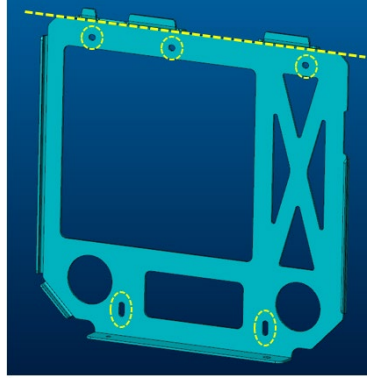


3. Slide down the bracket and take it out. Be sure to keep the screws.



## Install the mounting bracket location

1. On the flat wall where the charger will be installed, use a bubble level to draw a horizontal line where the top of the EV Charger will sit on and ensure it is mounted at appropriate height (according to local legal regulations) and allows slack for the cables connected to the charger.

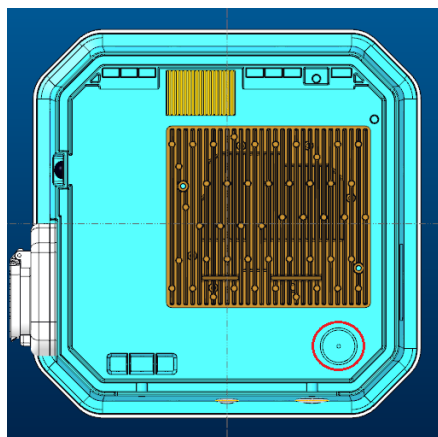


2. Align the top of the mounting bracket to the line and mark 5 mounting holes as above snapshot indicates.
3. Preparing the appropriate 5 screws according to the wall.
4. Drill the mounting holes with the drill bit.
5. Use the screwdriver bit to fasten up screws into the holes to fix the bracket onto the wall.

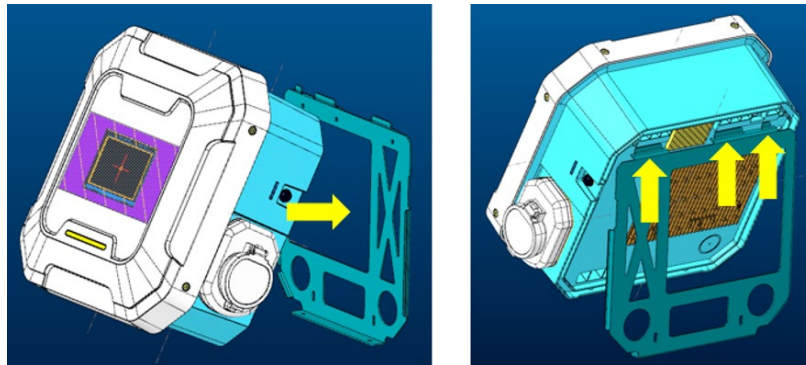
## Mount the EV Charger

Hang the EV Charger on the mounting bracket by its hook recess.

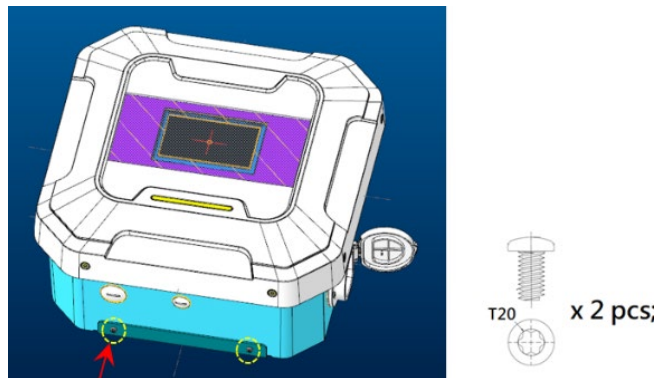
1. For power cable from back-inlet demand, use 32mm hole saw to cut out the knock-out when the charger faces down on the soft material surface.



2. Hang the charging station on the protruding hangers on the bracket.

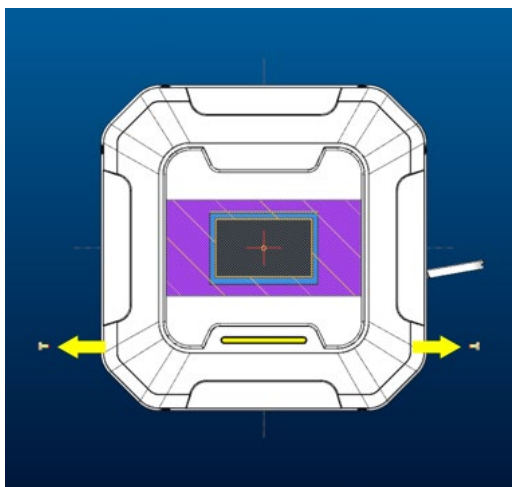


3. Through the bracket hole and screw up the screw onto the EV Charger. This will fix the charger onto the bracket.
  - a. Screw up the left screw first for the alignment purpose then fasten up the right one.
  - b. Apply torque:  $10 \pm 0.5$  kgf-cm.

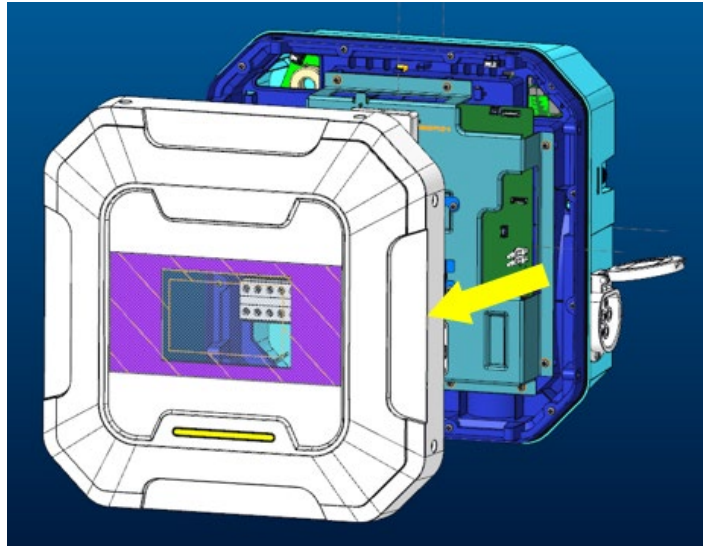


## Wiring preparation

1. With facing to the EV Charger, remove the 2 pcs front bezel screw. Be sure to keep the screws.



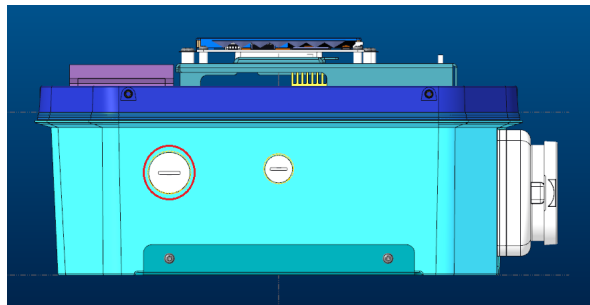
2. Pull and draw out the front cover.



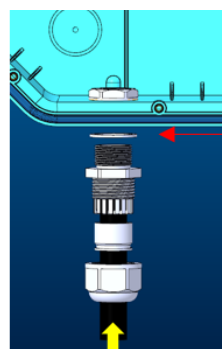
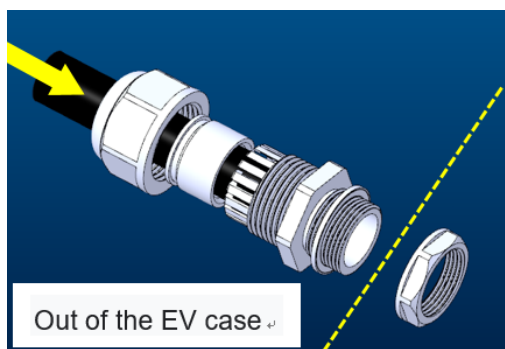
## Power cable hardwiring

- EV Charger accepts AC-input three wires with the single-phase, AC-input five wires with the three-phase and TT/ TN/ IT ground system power input as its power source.
- Requires a dedicated dual pole breaker.

1. Use a big coin to unscrew the cable hole plug. (Neglict if the power cable comes from back inlet)

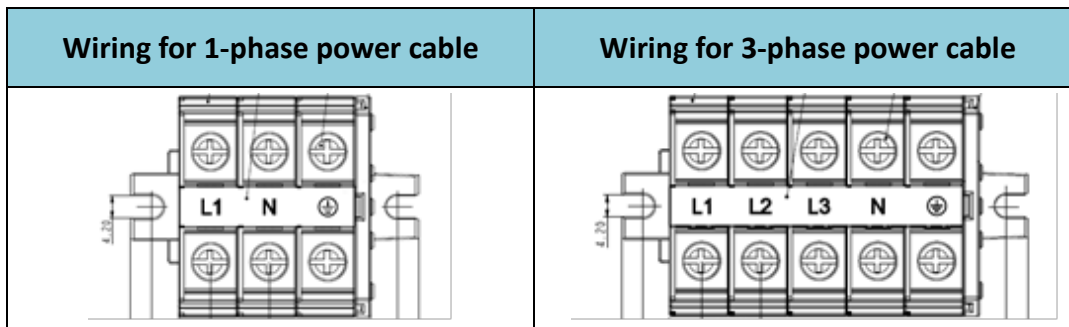


2. Take the provided cable gland from the accessory bag and insert the power cable through each of the cable gland components. (Neglict if the power cable comes from back inlet)



Place the sealing rubber outside the EV charger and fix the cable gland by the nut. ↴

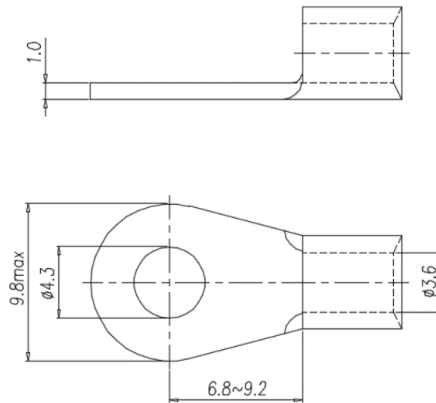
3. CASE 1: For the charger with panel terminal block. Power cable wiring approach.



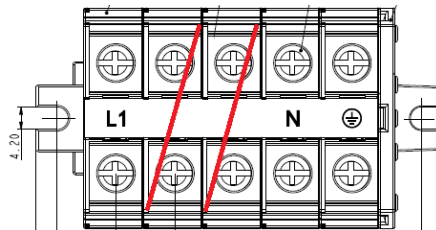
a. Connection must comply with the following mandatory requirements.

IEC Data	
Rated Voltage (V)	630
Rated Current (A)	41
Rated Voltage (III/3) (V)	630
Rated Impulse Voltage (III/3) (KV)	8
Cable lug connection according to standard	DIN 46234
Conductor cross section flexible, with min ring or fork terminals (mm <sup>2</sup> )	0.2
Conductor cross section flexible, with max ring or fork terminals (mm <sup>2</sup> )	6
Hole Diameter, min (mm)	4.3
Hole Diameter, max (mm)	9.8
Cable lug connection according to standard	JIS C 2805
Conductor cross section flexible, with min ring or fork terminals (mm <sup>2</sup> )	0.5
Conductor cross section flexible, with max ring or fork terminals (mm <sup>2</sup> )	5.5
Hole diameter, min (mm)	4.3
Cable lug connection width, max (mm)	9.8
Screw thread	M4
Screwdriver size	PH2
Terminal Point/ Tightening torque Min (N.m)	1.2
Terminal Point/ Tightening torque Max (N.m)	2.0
Stripping Length (mm)	The stripping length depend on the specification provide by the cable lug manufacture
End cover plate required	Yes
Grounding connection	No

## Appropriate Terminal



- Appropriate AC-input three wires with single-phase power source cable diameter is 9.3 ~ 14.2mm. For AC-input five wires with three-phase power source, the proper cable diameter is 13.3 ~ 18.8mm.
- Follow the wiring approach and insert the ring terminal into the panel terminal block.
- Use the PH#2 screwdriver to apply torque on the block screw, apply torque 1.2 ~ 2.0 N-m. (Approximate 12 ~ 20 kgf-cm)
- To adopt AC-input three wires with single-phase power source on Venus three-phase charger, please follow the instructions below. Leave out L2 and L3 port.



## 4. CASE 2: For the charger **w/o** panel terminal block. Power cable wiring approach.

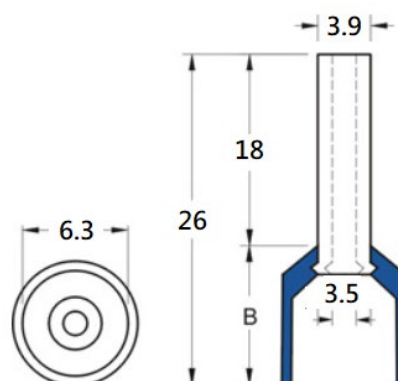
Wiring for 1-phase power cable	Wiring for 3-phase power cable

a. Connection must comply with the following mandatory requirements.

Safe carrying capacity of rubber or plastic insulated wire(1)					
specification ( mm )	nominal cross section ( mm <sup>2</sup> )	Safe carrying capacity ( A )			
		BX	BLX	BV	BLV
1*1.13	1	20		18	
1*1.37	1.5	25		22	
1*1.76	2.5	33	25	30	23
1*2.24	4	42	33	40	30
1*2.73	6	55	42	50	40
7*1.33	10	80	55	75	55
7*1.76	16	105	80	100	75
7*2.12	25	140	105	130	100
7*2.50	35	170	140	160	125
19*1.83	50	225	170	205	150
19*2.14	75	280	225	255	185
19*2.50	95	340	280	320	240

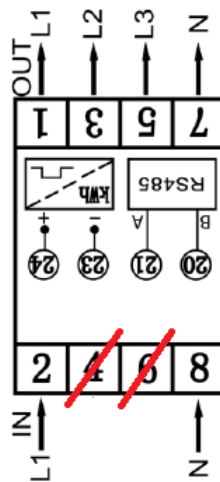
Note : BX(BLX ) copper ( aluminum ) core rubber insulated wire or BV(BLV ) copper ( aluminum ) core PVC plastic insulated wire , widely used in 500V or less than 500V AC and DC power distribution system. The temperature for the data listed in the above table is 35 °C, the safe carrying capacity value for the wire on single covered.

Appropriate Sleeve Terminal

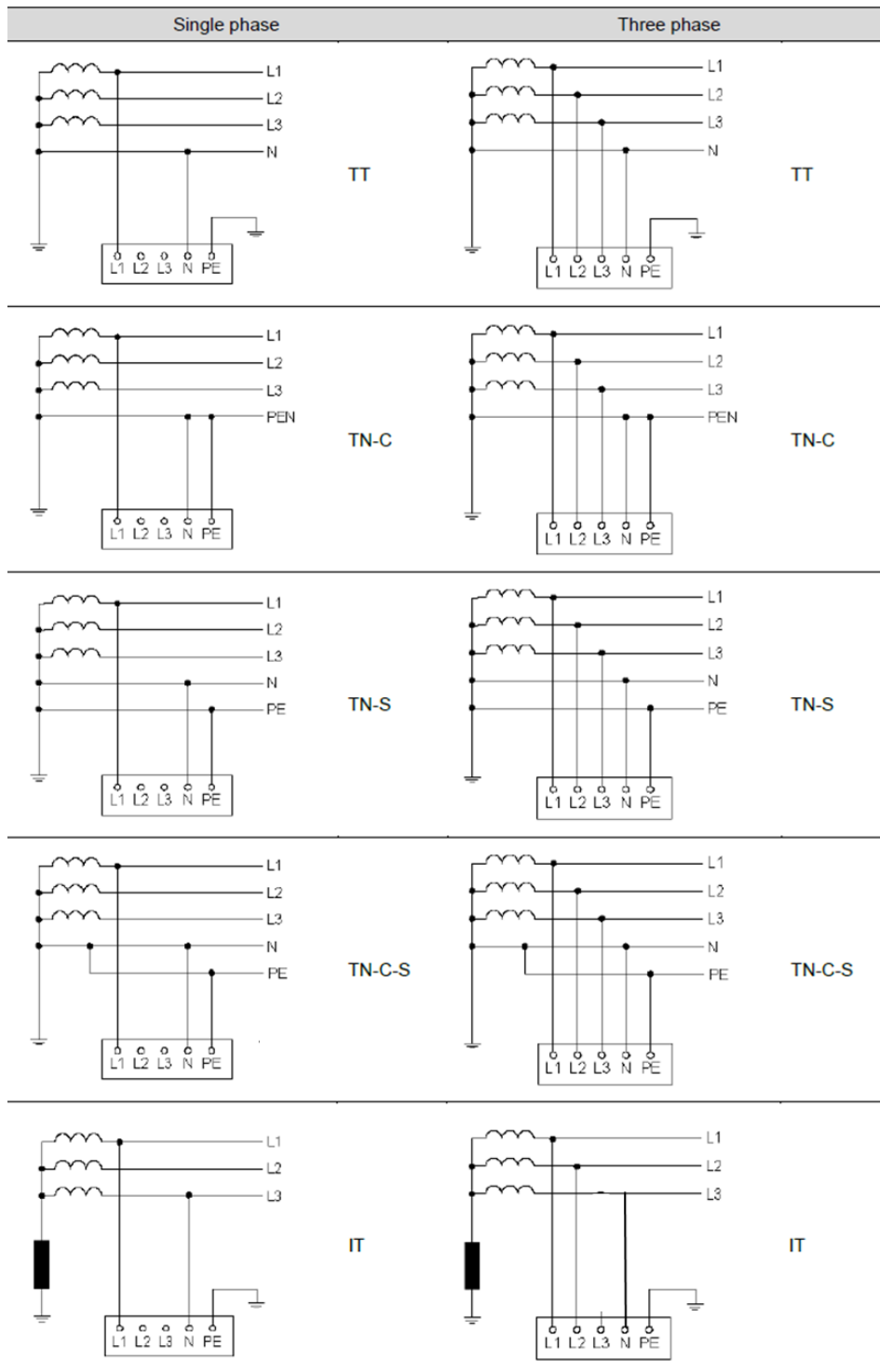




- b. Appropriate AC-input three wires with 1-phase power source cable diameter is 9.3 ~ 14.2mm. For AC-input five wires with 3-phase power source, the proper cable diameter is 13.3 ~ 18.8mm.
- c. After cramping, the **compression height 2.05 ~ 2.45mm; compression width 3.6 ~ 4.1mm.**
- d. Follow the wiring approach and insert the sleeve terminal into the MID-meter.
- e. Use the PH#2 screwdriver to apply torque on the meter screw, apply torque 1.2 ~ 2.0 N-m. (Approximate 12 ~ 20 kgf-cm)
- f. To adopt AC-input three wires with single-phase power source on Venus three-phase charger, please follow the instructions below. Leave out L2 and L3 port.



5. CASE 3: For grounding system wiring diagram. (TT/ TN/ IT system)



Note (1) IT system input voltage range as shown as below:

$V(L1-L2/ L2-L3/ L1-L3)$ : 220 ~ 240Vac

$V(L1-Gnd/ L2-Gnd/ L3-Gnd)$ : 127 ~ 139Vac

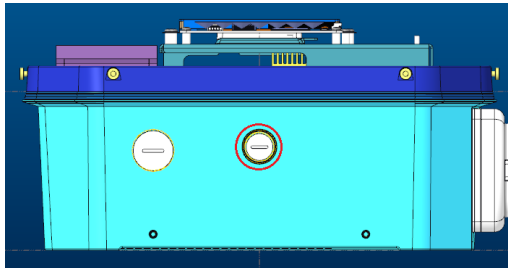
Note (2) UK (UKCA grounding system) is not suitable for IT system application.

Note (3) Adjusting correct number bases on rotary switch table shown on page 17 for IT system applications.

6. Ethernet cable connection.

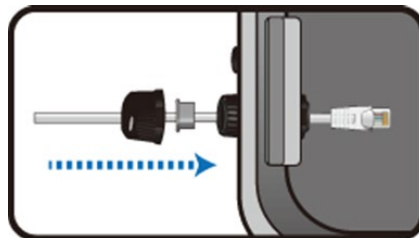
Prepare **a round type of Ethernet cable** ( $\phi 5.5 \sim \phi 7.5 \text{mm}$ ). Do not use flat type ones.

- a. Use a big coin to unscrew the cable hole plug.



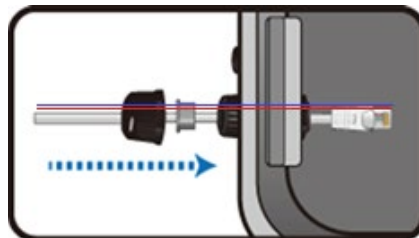
- b. Take the provided cable gland from the accessory bag and insert the ethernet cable through each of the cable gland components.

**The network cable shall be round type with diameter  $\phi 5.5 \sim \phi 7.5 \text{mm}$ .**

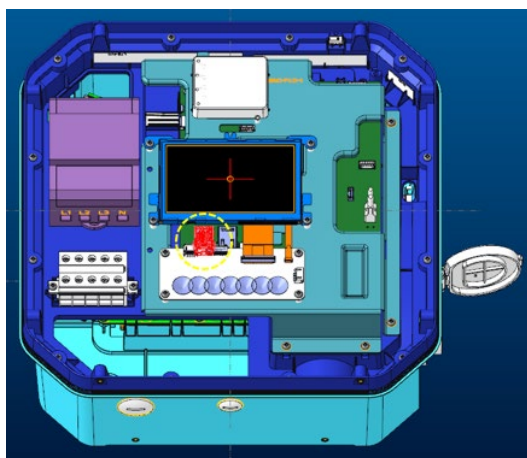


If you need to connect an external power meter for HOME SKU charger (RS-485 signal only) simultaneously, please insert RS-485 cable in this step.

**The RS-485 cable shall follow AWM 1007 and be over 26AWG, 2-wire.**



- c. Plug the cable to the Ethernet port.

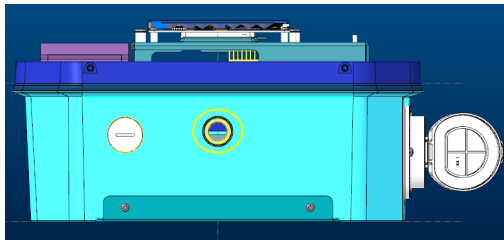


7. Ethernet cable for Daisy-Chain connection (Optional)

- a. Please check your SI vendor to obtain the 2-hole cable gland.

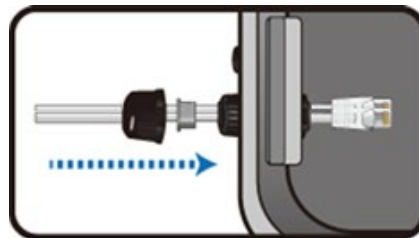


- b. After the cable hole plug has been removed, use 25mm hole saw to cut out the knock-out for 2-hole cable gland usage.

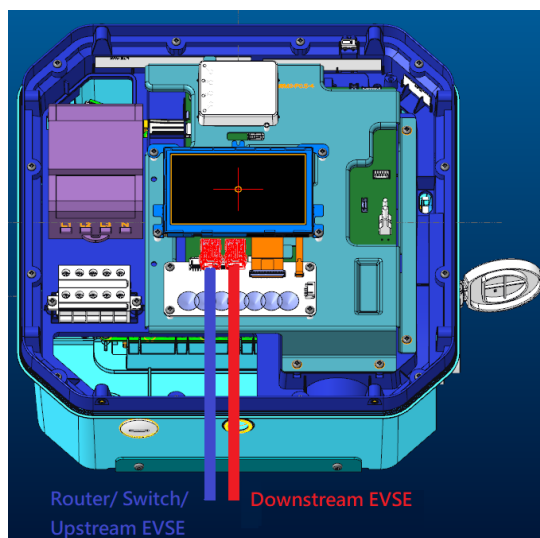
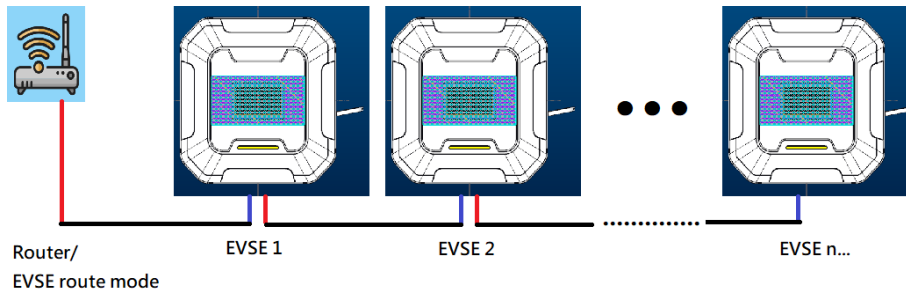


- c. Use the 2 ethernet cables through each of the cable gland through holes.

**The network cable shall be round type with diameter  $\phi 5.5 \sim \phi 7.5 \text{mm}$ .**



- d. Daisy-Chain connection approach.



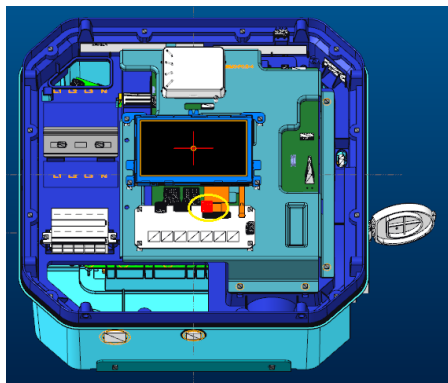
8. External power meter connection (Optional & for RS-485 signal only)

Appropriate connector: **DECA M420-350, 3 ports.**

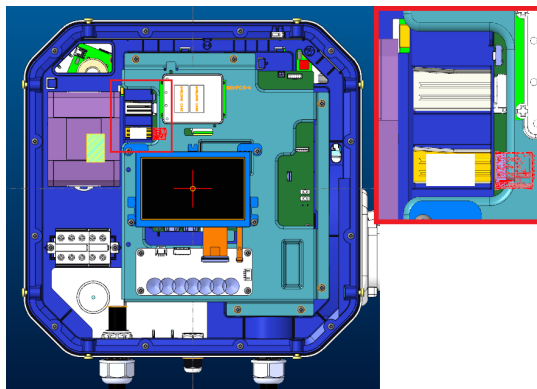


RS-485		
Pin No.	Signal Name	Diagram
1	RS485_A+	
2	RS485_B-	

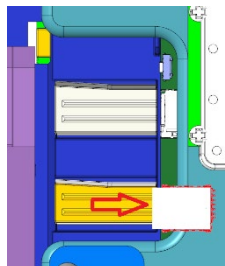
- Follow the above diagram to connect the RS-485 wires on the specified connector.
- Plug the cable to the RS-485 socket.



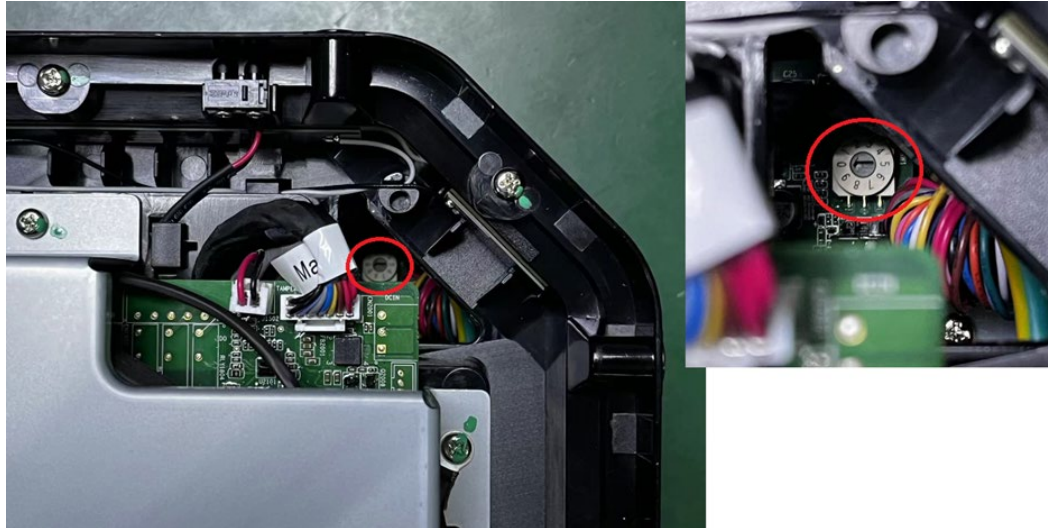
9. Insert nano-SIM card to the SIM socket. (Optional)



- Place the nano-SIM card on the guide rail as the above snapshot indicates.
- Put the finger on the card and push it to the right socket.

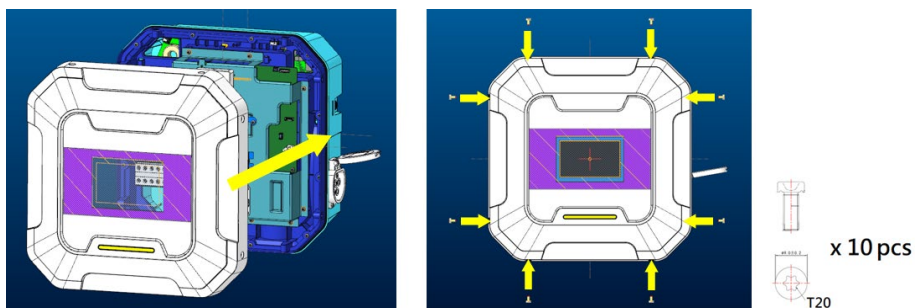


10. Adjust the power (current) output as shown in the table instruction.



Rotary Switch	For 32A_3P	For 32A_1P
0	32A Default	32A Default
1	25A	25A
2	20A	20A
3	16A	16A
4	13A	13A
5	10A	10A
6	8A	8A
7	IT Ground System	<b>Error</b>
8	Factory Reset	Factory Reset
9	32A (For 1P Power Source)	<b>Error</b>

11. Assemble the front cover and screw up the waterproof screw to fix the cover.
- Use eight pcs screw to fasten the front cover. The others are the spare parts.
  - Apply torque:  $10 \pm 0.5$  kgf-cm.



# Charging your vehicle

To charge your EV, open the inlet of EV and plug the charging gun into it. You will see the status light on the EV Charger switch to solid blue when it is connected to the EV. The LED indicator will begin breathing blue as the vehicle charges. Additionally, most EVs have indicator lights on the dashboard to let you know that you're charging. Do not attempt to drive your vehicle while the charging gun is connected to your vehicle.

# Start using

## Connect to your charger (AP mode)

1. When the charger has not been configured yet, after booting up, the indicator light will be breathing white, indicating AP mode.
  - 1.1 Using WIFI Connection: Prepare a smartphone or computer, open the WIFI settings page, search for "VENUS\_EVSE\_3C9E", and enter the password:evse1234.
    - \* 3C9E represents the last four digits of the MAC address.
  - 1.2 Using LAN Connection: Connect to LAN and enter the device IP for connection, for example:  
<https://10.70.1.127>
2. Accessing the Charger: Scan the QR code sticker attached to the charger, or open a browser and enter <https://venus-3C9E.local>
  - \* Recommended to use Chrome browser version 101.0.4951.54 or above.
3. Enter the username and password to log in.

NOTE: To avoid operational errors, only one user can be connected to the charger at a time. If multiple logins occur, the system will prompt with a window.

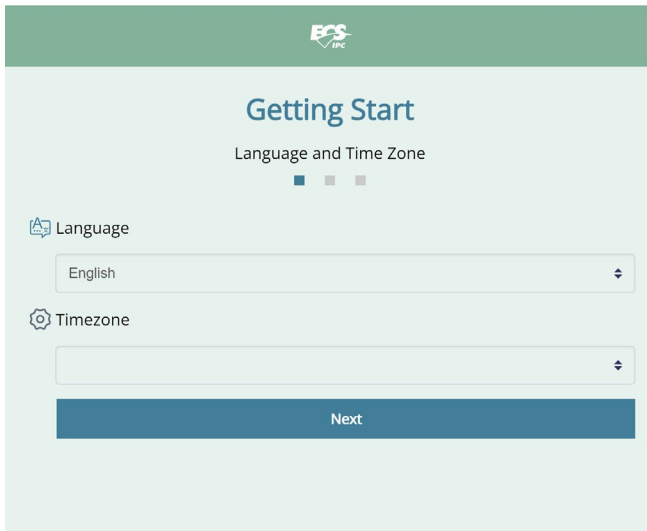
  - \* Default Usernames: venus (administrator) / venususer (user)
  - \* The default internal test password is EVse1234.
4. After changing the password, log in again.



# Initialization

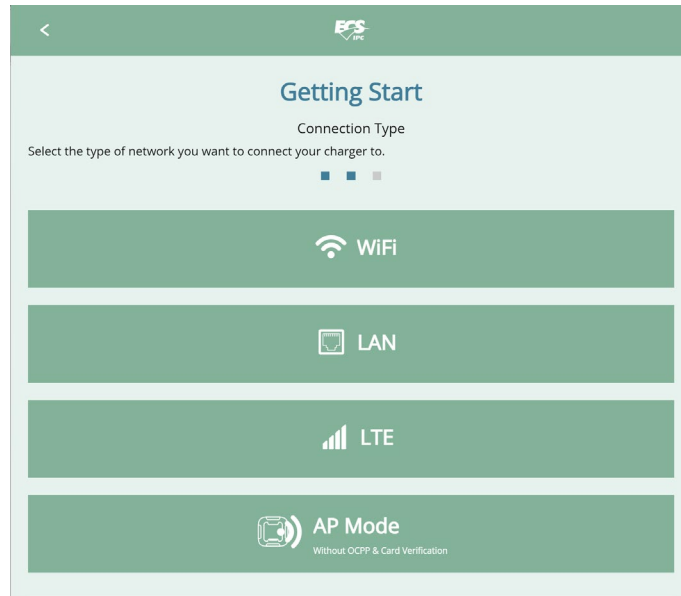
For t Upon logging in for the first time to set up the charger, a welcome screen will appear. Until the Initialize settings are completed, the welcome screen will appear each time you access the link.

## 1. Confirm Time Zone and Language



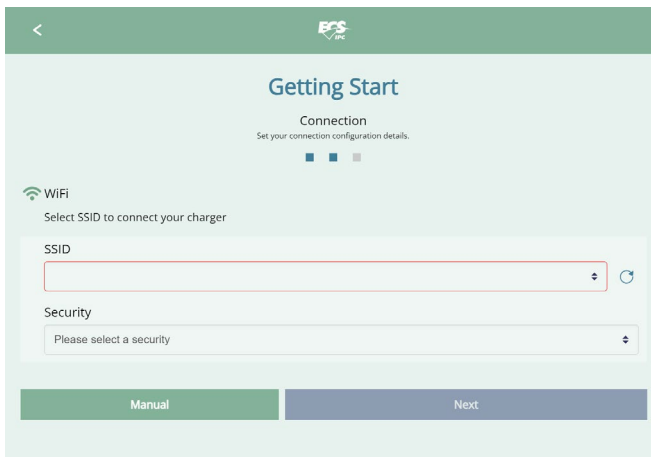
## 2. Select the type of network connection



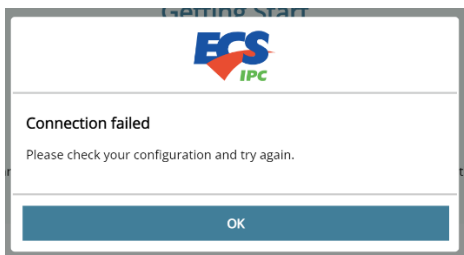


➤ **WIFI**

When WI-FI connection is selected, when entering the next page, the system automatically scans available SSIDs and list them it he SSID list in such page.



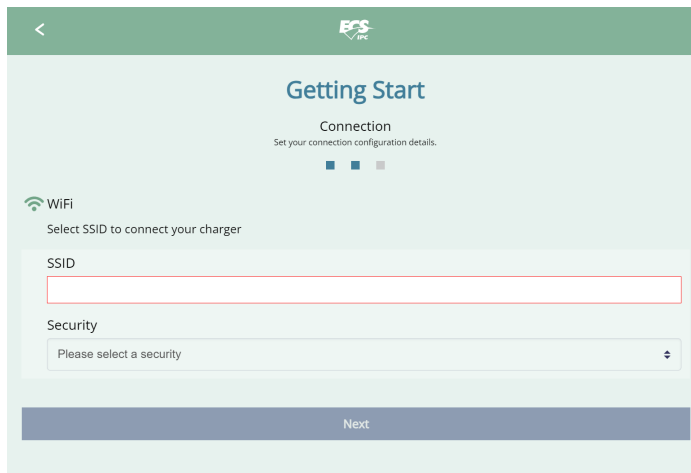
- ✧ Select the SSID to be used and enter the password. If you cannot find the SSID you want to use, you can press the refresh button to find it again. After the setting is complete, press **next**. Then, the system first checks whether the password is correct and whether the SSID is connectable. If the connection is successfully established, you can proceed to the next step.



( Screen for failed connection check.)

- ✧ Select "**Manual**" to enter WiFi information manually. After completing the form, press "Next" to continue. (This page

does not check for immediate connectivity.)



✧ **WI-FI options:**

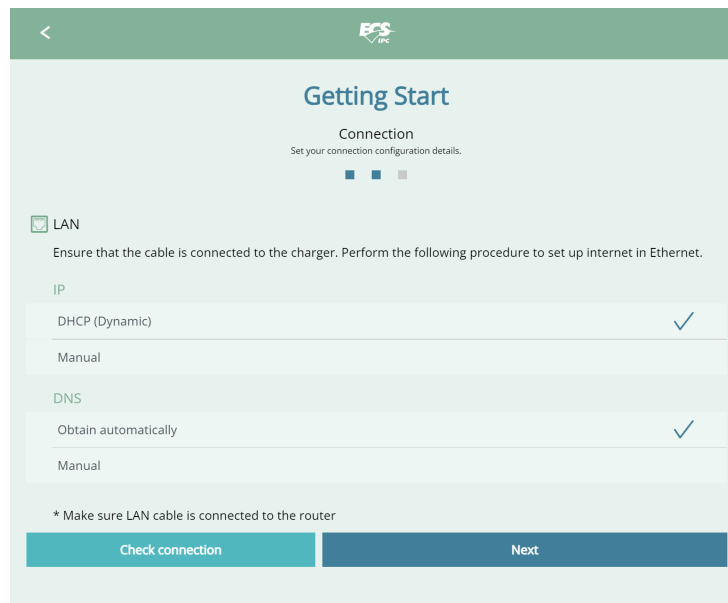
None: No additional settings are required.

WPA & WPA2 Personal: Password settings are required.

WPA & WPA2 Enterprise: Relevant settings or certifications are required.

➤ **LAN**

When LAN connection is selected, first connect the charger to the router with cable. After completing the setup, press **Next**. The system will display a pop-up window and reboot. Press **Check Connection** to verify the network status. A pop-up window will display the results.



✧ **LAN Setup Options**

**IP:** Select *DHCP* to get dynamic or select *Manual* to manually enter the DNS server address.

IP

DHCP (Dynamic)

Manual

Manual IP

IP

Subnet Mask

Default Gateway

**DNS:** Select how you want to configure the DNS server address.

Click on the Obtain DNS Server address automatically to use a public DNS.

DNS

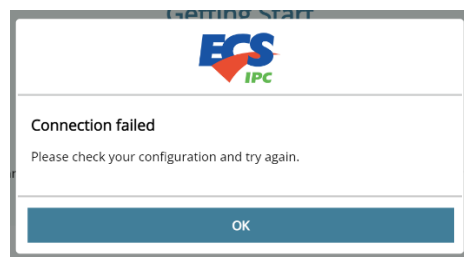
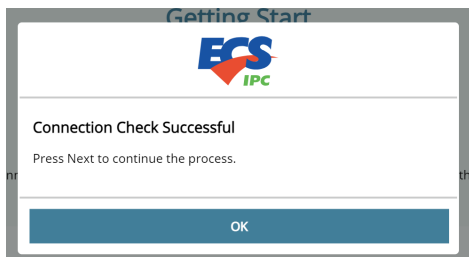
Obtain automatically

Manual

DNS server address

Preferred DNS server

Alternate DNS server

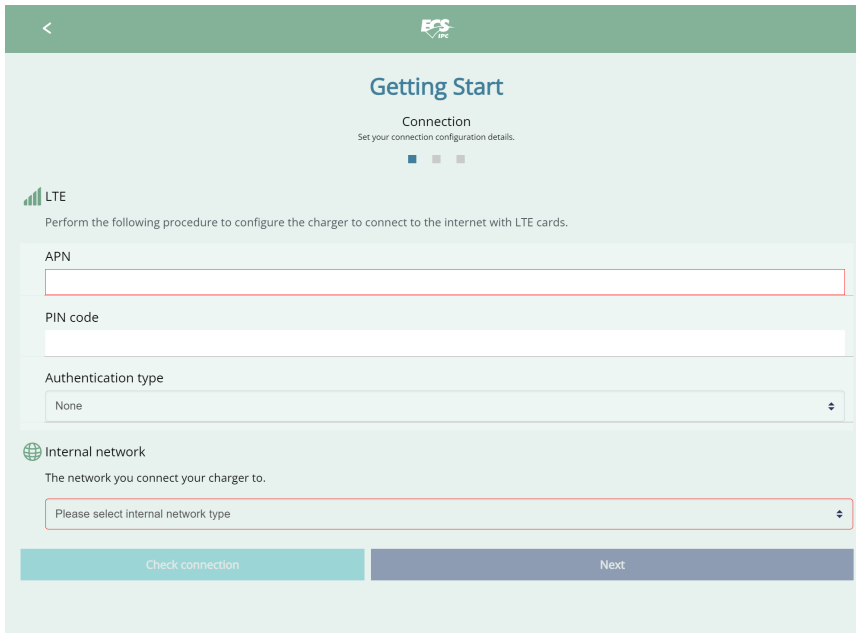


*( Screen for successful & failed connection check.)*

➤ **LTE (optional)**

If you choose LTE connection, set the LTE information and internal network type (WI-FI/LAN) in the page and click **next**.

Press **Check Connection** to verify whether LTE can be connected.



✧ LTE options

APN\*

PIN code

Authentication type:

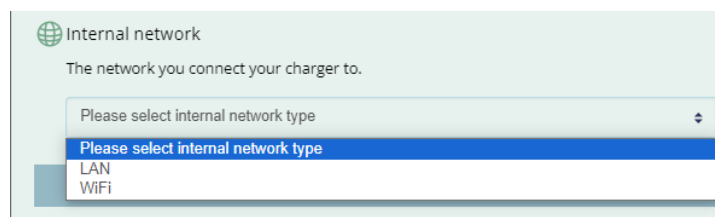
None;

PAP, CHAP, mschapv2: input User name and Password



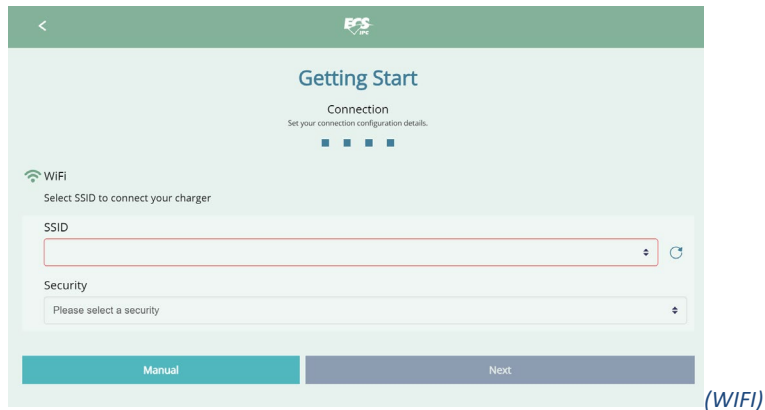
Internet network:\*

Wifi, Lan

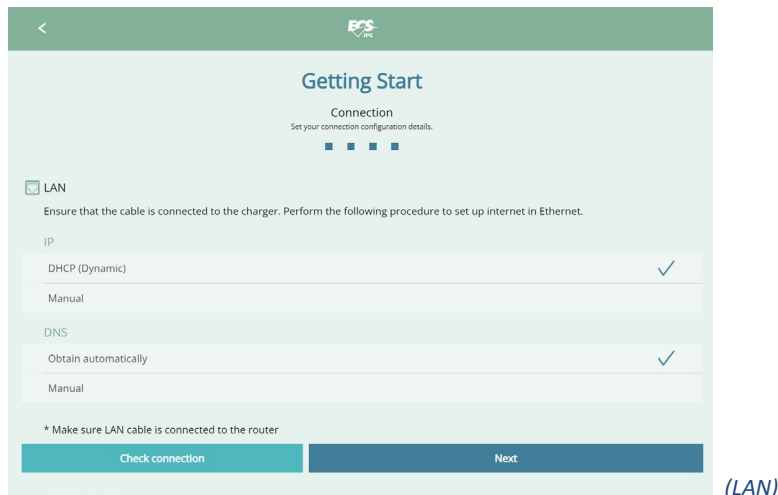


✧ Internal network settings page

The page setup process is the same as the WIFI/LAN page above.



(WIFI)



(LAN)

### 3. OCPP settings

After the network settings are completed, the OCPP setting page appears. Fill in the information fields according to the certification information provided by SI or just click **next** to skip this step for now. Press **next** and, then, the system starts rebooting and opens the home page after rebooting. Before the reboot completes, you need to switch the network settings of your phone (for example, if you have previously set SSID to "ECS", switch to ECS; if you have selected LAN (with router) as you connection type, switch to the SSID of the router.

✧ **OCPP options**

**Charge Point ID:** The name used to represent the charger in the OCPP Central System (In default, a preset name, which can be modified here, automatically applied).

**Protocol Name:** OCPP version information (automatically displayed)

**Central System URL:** OCPP Central System address

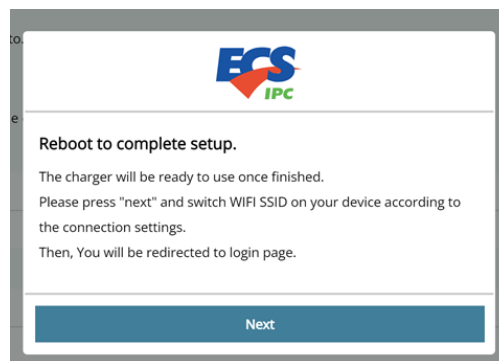
**Basic Auth ID/password**

The ID/password for BASIC authentication used in HTTPS (SSL/TLS) connections.

**FTP Server Username:**

The account and password required for connecting to the OCPP FTP Server.

**CA Certificate:** Upload the certification file required by the OCPP server. The feature is disabled in default.



\* Note: If you quit setting during the initialization process, leaving the setup unfinished, the charging is not ready for use. The next time you connect to the page, you need to set it up from start again.

## ■ Charger status and indicator light pattern

<p><b>Charging / smart charging</b></p> <p><b>Blue Breathing Light</b></p> <p>Charging</p>	<p><b>Error Steady red</b></p> <p>Charger Error. Please refrain from using the charger and seek assistance from the supplier.</p>
<p><b>Available Steady Light Blue</b></p> <p>The charger is available for use. Currently, there are no vehicles connected to the charger.</p>	<p><b>Preparing Steady Green</b></p> <ol style="list-style-type: none"> <li>1. Card tagged (Available in 20 seconds)</li> <li>2. Vehicle connected to charger</li> </ol>
<p><b>Unavailable Flashing Red</b></p> <p>The OCPP server status is incorrect, and currently, it cannot be used.</p>	<p><b>Finished Steady Blue</b></p> <p>The charging session has ended. You may unplug the charging cable to complete the process. The user ended the charging session by tag cards.</p>
<p><b>Waiting for your car Steady Green</b></p> <p>The vehicle has not started charging yet or has actively ended the charging session.</p> <p>After the user tags the card, wait for the vehicle's response.</p> <p>The vehicle is fully charged.</p>	<p><b>Waiting for the charger Steady Green</b></p> <p>The charging station is suspended.</p> <p>During charging, if a recoverable error occurs, it will first enter this state. After the issue is resolved, charging will resume.</p>
<p><b>Reserved Flashing Green</b></p> <p>The charger has been reserved and is only available for use after the reservation holder swipes the card.</p>	<p><b>AP mode Breathing White</b></p> <p>The charger is not yet configured and is in AP mode. It is currently unavailable for use.</p>

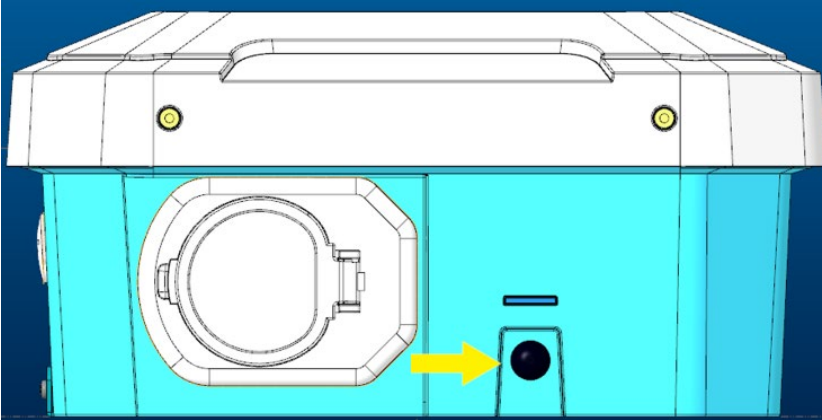
## Network status Indicator

Indicator	Connection type	Status
Green (Steady)	AP mode	device connected
Green (Flashing)	AP mode	No connection detected
light Blue (Steady)	WiFi or LTE+WIFI	WIFI connected
Red (Flashing)	WiFi or LTE+WIFI	WIFI disconnected
Light off	LAN or LTE+LAN	X







## ■ Function key

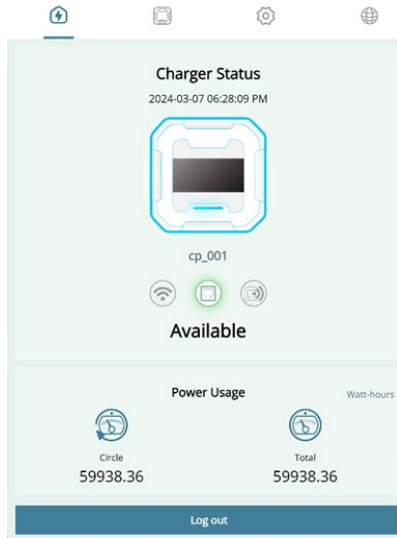
Press function key for 6 seconds. The charger will be rebooted.



## Web App

	Home
	Device settings
	Advanced
	Network

# ■ Home



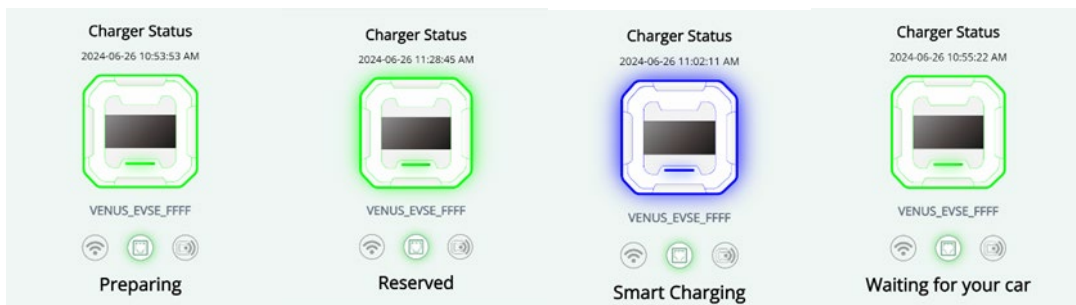
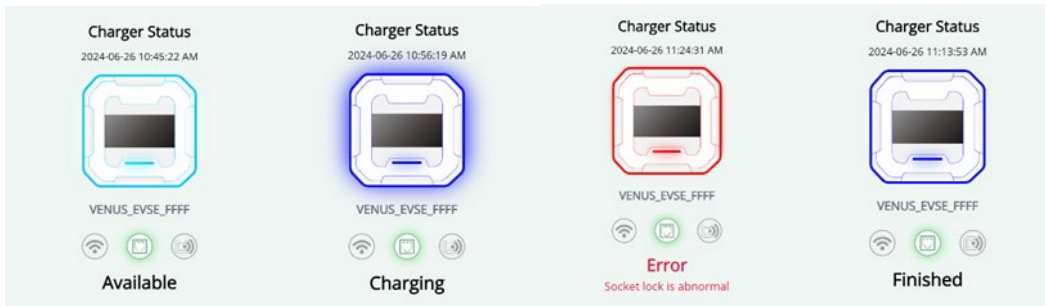
## \*Charger Status

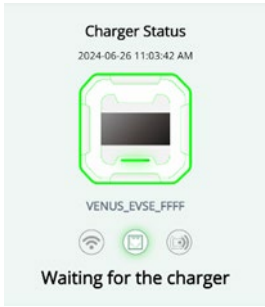
1. Charger status icons.
2. Charger name (Device ID)
3. Network configuration

The icon highlighted in green represents the current network configuration, which can be WI-FI, LAN or LTE or AP mode.

### 4. Charger status message

*Charging, Available, Error, Preparing, Unavailable, Finished, Smart charging, Reserved, Waiting for your car, Waiting for the charger.*





5. If the status is Error, it shows the cause of such status (as shown in the error message list).

**\* Power usage**

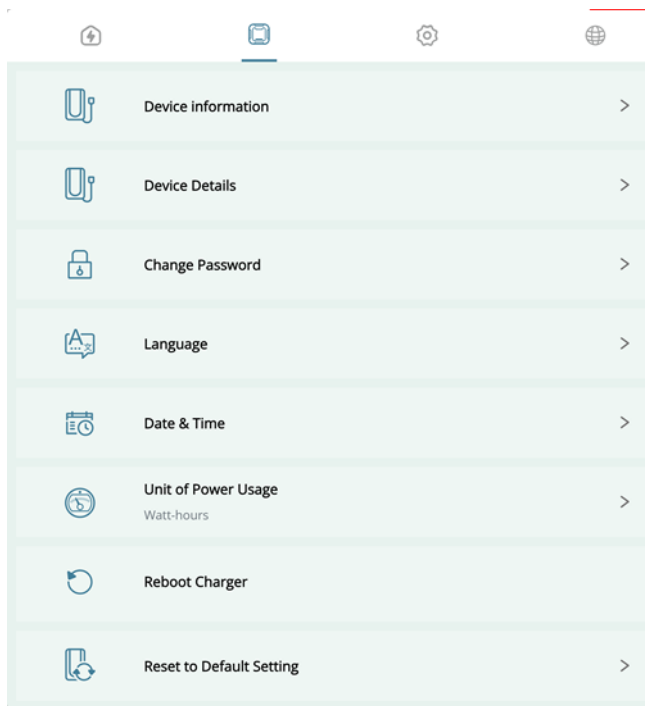
The two values increase with the power usage of each charging service. In the page which can be found in "device settings> unit of power usage", you can change the unit of Total and clear the value of Circle.

\*After performing "Factory reset", both values become 0.

**Total:** Total power usage of the charger.

**Circle:** This is the usage frequency in the specified period. It can be reset to zero by pressing **clean** in "device settings> unit of power usage".

## ■ Device setting



### \* *Device information*



Shows the information about this charger

- ◆ Device ID: The charger's name
- ◆ Device Serial Number: The serial number of this charger
- ◆ Charger model: The model name of this charger ( ex: WKT-EC13)
- ◆ Firmware version: The version of the firmware
- ◆ Connector type: fixed or socket

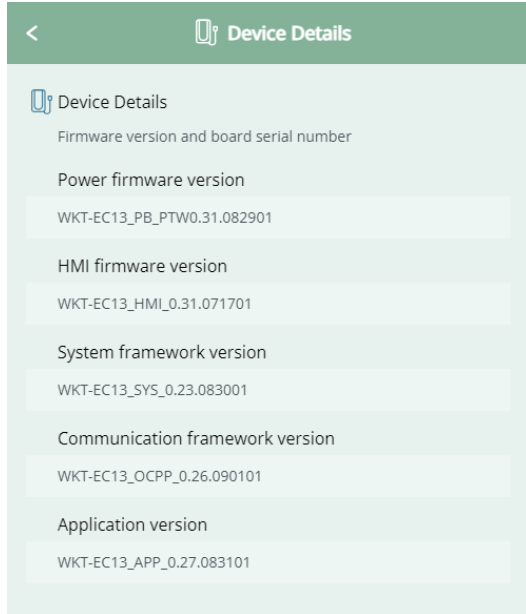
Software validation: Active/ Inactive / error

### **\*Reboot charger**

The system starts rebooting immediately if you press Reboot. Once the reboot is completed, the system welcomes you with the login page.

### **\* Device details**

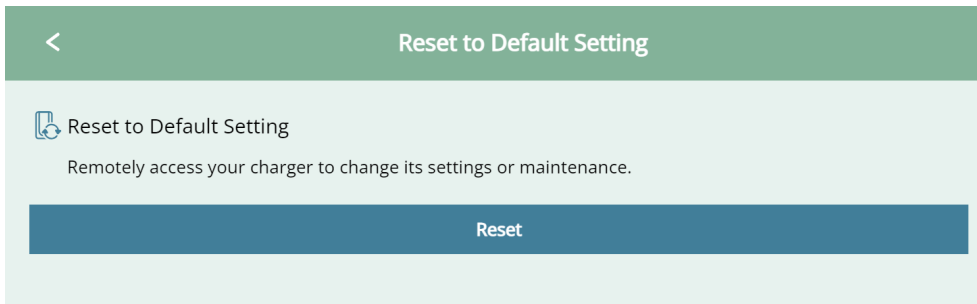
Firmware and motherboard specifications information



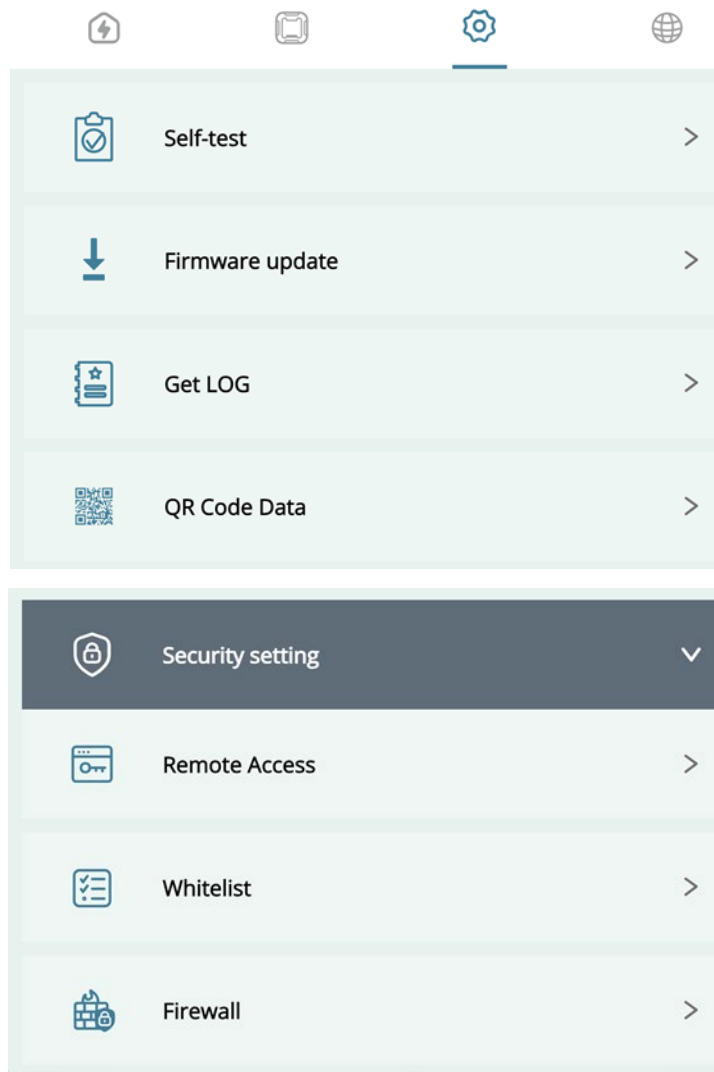
### **\*Reset to default setting**

A press on **Reset** can reset the system to its default state.

The reset operation includes clearing the cards added by the user (but not the SET cards), restoring all power usage values to zero, clearing the initialization settings (mode + network + OCPP settings) and restoring the maximum current setting/unit of Usage/whitelist to their factory default. Once the system completes the reboot, users need to set the charger through the AP mode (SSID) connection. (For details, refer to the chapter regarding first time setting)

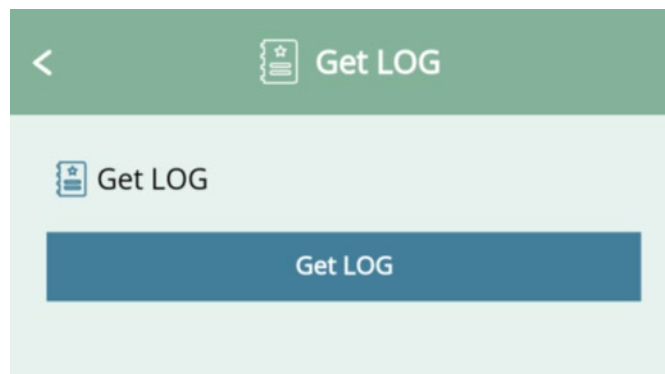


## Advanced setting



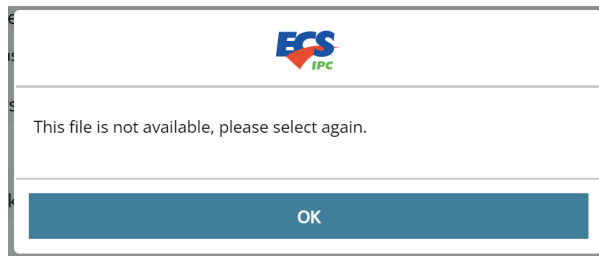
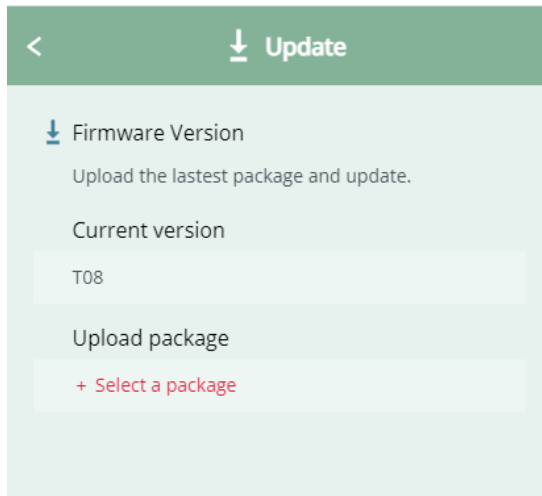
### ***\*Get log***

A push on this button allows you to download the LOG file to your connected device.



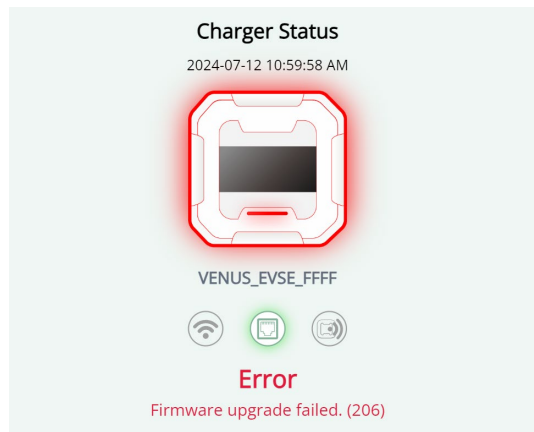
### ***\*Firmware update***

Select a package to import (For example: WKT-EC13\_v1.file), and follow the instructions to complete the process. The system starts rebooting to apply the update.

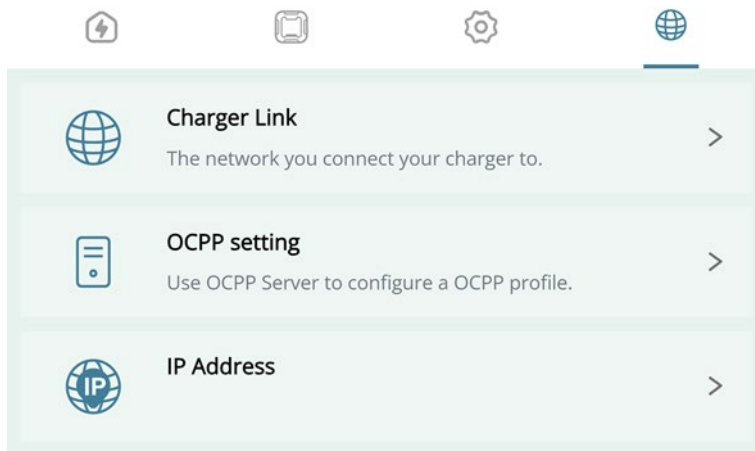


*(File format error message)*

Firmware update failed: The charger goes into Error state and cannot be used (As shown below). Please check the update file and try again.

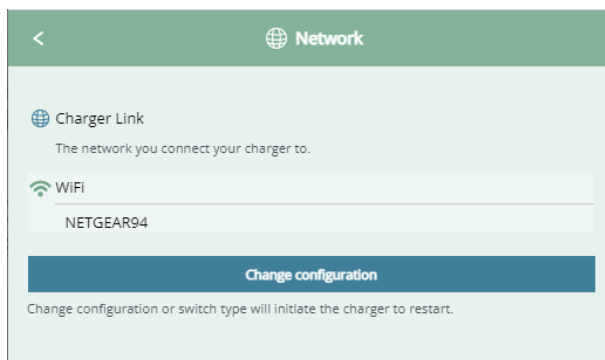


## ■ Network



### **\*Charger Link**

Displays the current network configuration and provides "**Change configuration**" to change them.

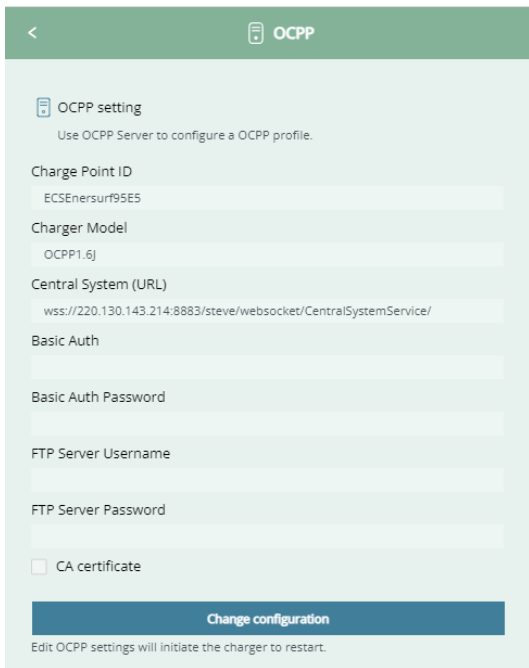


Press the **Change configuration** button and the setting page appears. The steps for changing settings are the same as Initialization for the first time.

### **\*OCPP setting**

Displays information of your OCPP server. Press the **Change configuration** button to change OCPP settings. After completing the setting, press Next. The system starts rebooting to apply the changes made here.





**OCPP setting**  
Use OCPP Server to configure a OCPP profile.

Charge Point ID  
ECSEnersurf95E5

Charger Model  
OCPP1.6j

Central System (URL)  
wss://220.130.143.214:8883/steve/websocket/CentralSystemService/

Basic Auth

Basic Auth Password

FTP Server Username

FTP Server Password

CA certificate

**Change configuration**

Edit OCPP settings will initiate the charger to restart.

**\*IP address**

Displays the current IP address information of the device.



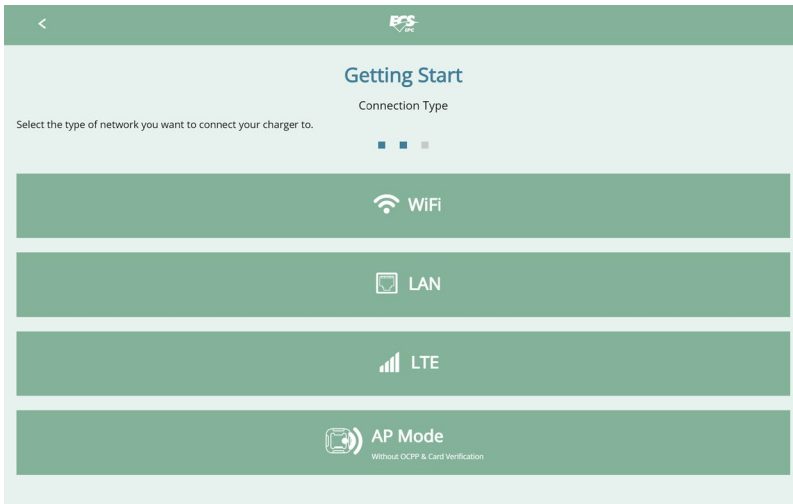
**IP IP Address**

IP Address

Interface / Status / IP
lo UNKNOWN 127.0.0.1/8
mlan0 UP 10.70.1.12/24
br0 DOWN 10.60.2.1/24

## AP mode

Access Method: Select AP mode on the settings page

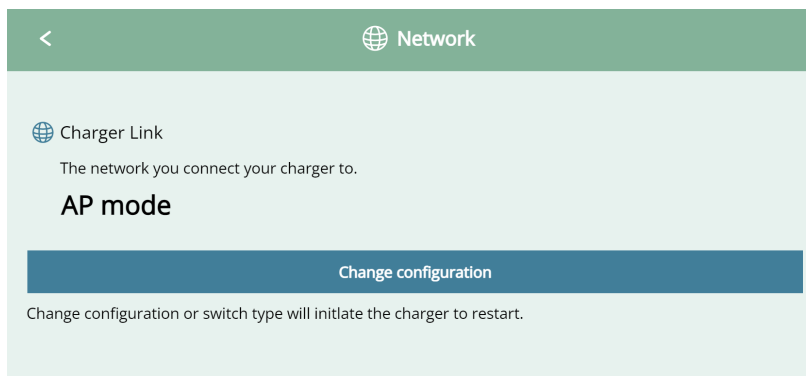


When connecting using AP mode, the differences from other methods are:

A. Charger status (3 types)

- Charging
- Available
- Error

B. Network > Charger Link page shows "AP mode" and a "change configuration" button



C. No OCPP settings

D. No card verification required

# Factory reset

1. Turn off EVSE.
2. Rotary switch to 8.
3. Turn on EVSE, HMI LED is white with flashing. Display will show message:  
*Factory reset is in progress, please wait.*
4. After Factory reset success, HMI LED is all off. Display will show message:  
*The charger has been restored to factory settings. Please turn off the charger, set the switch back to 0, and then reboot.*
5. (When Factory reset fail, HMI LED is red). Display will show message:  
*Factory reset failed. Please reboot and try again.*
6. Turn off EVSE.
7. Rotary switch to 0. (Depending on prefer charging current.)
8. Turn on EVSE, HMI LED is white with flashing.

Rotary Switch	For 32A_3P	For 32A_1P
0	32A Default	32A Default
1	25A	25A
2	20A	20A
3	16A	16A
4	13A	13A
5	10A	10A
6	8A	8A
7	IT Ground System	Error
8	Factory Reset	Factory Reset
9	32A ( For 1P )	Error

# Error code list

Error reason	Display message	Code
RCD_ERROR	Personnel protection device abnormal. (1)	1
RCD_FAULT_1	Personnel protection device self-test failed. (2)	2
RCD_FAULT_2	Personnel protection device self-test failed. (3)	3
OVERTEMPERATURE_1	Charger overheat. (4)	4
OVERTEMPERATURE_2	Charger overheat. (5)	5
Over current (SW)	Charging current is over rotary setting. (6)	6
OVERVOLTAGE	Charger voltage is too high. (7)	7
UNDERVOLTAGE	Charger voltage is too low. (8)	8
CT_RCM_FAULT	Personnel protection device self-test failed. (12)	12
PHASE_SEQUENCE_ERROR	Wrong phase sequence. (15)	15
METER_FAULT	Power meter is abnormal. (18)	18
IMMEDIATE_RCD_ERROR	Personnel protection device abnormal. (19)	19
IMMEDIATE_RCD_FAULT_1	Current leaks into the ground. (20)	20
IMMEDIATE_RCD_FAULT_2	Current leaks into the ground. (21)	21
IDLE_CURRENT	Standby current is too high. (22)	22
Main Relay1 stuck open	Supply switching device unable to close. (29)	29
Main Relay2 stuck open	Supply switching device 2 unable to close. (30)	30
Main Relay1 stuck closed	Supply switching device unable to open. (31)	31
Main Relay2 stuck closed	Supply switching device 2 unable to open. (32)	32
Software current setting error	Charging current is over software settings. (33)	33
MB->PB_COMMAND_TIMEOUT	Internal communication timeout. (34)	34
INVALID_HARD_CURRENT_LIMIT	Charging current setting is invalid. (36)	36
RCD_SELF_TEST_ERROR	Personnel protection device self-test failed. (39)	39
CT_TEST_FAULT	Current sensor self-test failed. (49)	49
OVERTEMPERATURE_4	Socket overheat. (51)	51
NVM_DATA_FAULT	Memory storage unit error. (53)	53
LOCK_TEST_FAULT	Socket lock is abnormal. (57)	57
CHG_OVERCURRENT	Charging current is over limitation. (58)	58
VOLTAGE_SAG	Charger voltage is unstable. (62)	62
CP_ADC_ERROR	Communication to EV is abnormal. (64)	64
PB init fail	Initial setup of Power Board failed. (200)	200
CP MQ send fail	Failed to send message to OCPP. (201)	201

WEB MQ send fail	Failed to send message to WebAPP. (202)	<b>202</b>
PB heartbeat init fail	Failed to send heartbeat to Power Board. (203)	<b>203</b>
Connector read/lock fail	Connector read/write failed. (204)	<b>204</b>
Energy offer read/write fail	Energy offer read/write failed. (205)	<b>205</b>
Firmware upgrade fail	Firmware upgrade failed. (206)	<b>206</b>
Demo time expired	Demo mode timeout. (207)	<b>207</b>
CPM Unhandled Exception error	CPM unhandled exception error. (208)	<b>208</b>
PB UART open fail	Power Board UART port failed to open. (209)	<b>209</b>
Novoton monitor UART port open fail	Novoton monitor UART port failed to open. (210)	<b>210</b>
Novoton command UART port open fail	Novoton UART port failed to open. (211)	<b>211</b>
PB UART port send fail	Failed to send Power Board command. (212)	<b>212</b>
Novoton command UART port send fail	Novoton command read/write failed. (213)	<b>213</b>
LED read/write command fail	LED read/write errors. (214)	<b>214</b>
PB max current read/write fail	Power Board maximum current setting read/write failed. (215)	<b>215</b>
Factory reset fail	Factory reset failed. (216)	<b>216</b>
EVCommunicationError	Communication failure with the vehicle. (299)	<b>299</b>

# Troubleshooting table

Error message	Possible solution	Error code
Network is abnormal	1 Check the connection status of the network devices For example: WIFI gateway, LAN cable, or SIM card 2. Contact the provider to confirm the status of the Central System	<b>102</b>
Central System URL is incorrect	Please verify that the Central System URL in the OCPP settings page is correctly filled in.	<b>103</b>
Basic authentication information is incorrect	Please check the Basic Auth fields for the username and password information in the OCPP settings page.	<b>104</b>