EVIE Smart Home Charging Installation Manual

Product Code: EVIECSP732SHA

Type 2, Mode 3, Single Phase 7.2KW 32A

APPROVED

Office for Zero Emission Vehicles

- LED Indicators
- LED Display
- RFID Swipe
- Cable Entry

- Emergency Stop Button
- Key Lock
- Type 2 Socket

Accessories Supplied in Box

1x CT Clamp via RS485 Modbus & CAT5	3x RFID Cards (Customer to finish pairing)	1x Wall Mounting Bracket 1x Cable Gland M32 & Locknut	3x Wall Plugs and CS Screws (No. 8 recommended 40mm long)	2x Keys for Enclosure Lock	3x Security Screws 1x Security Key	1x 32mm to 25mm Plastic Reducer 1x 32mm to 20mm Plastic Reducer

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Unit Installation Guide

Power Cables

The unit can be installed using a suitable 6mm² three core cable

Live supply = Brown   Neutral cable = Blue   PE cable = Green/Yellow

### Step 1: Attach the mounting bracket to the wall or the ground mounting pole

Wall mounting:

- Please ensure the unit bracket is fixed to an exterior brick wall or suitable wooden frame
- Choose a suitable location for the unit by checking the signal on a mobile phone to ensure a Wi-Fi connection can be established. Should the signal strength not be sufficient, the system may require a Wi-Fi booster or hard-wired RJ45
- Put the bracket on the wall, mark the wall where the holes are indicated
- Drill holes into the wall on the marked position, place the wall plugs provided into the drilled holes
- Place the bracket back to the wall and insert the CS screws into the wall plug
- Fix the EV charger unit onto the bracket and ensure the holes on the enclosure body match the holes on the bracket (The enclosure and bracket have 3 holes, 2 on each side and 1 on the bottom)
- Insert the security screws into the assembly holes and fix the screws using the security key provided
- Use the key to open the enclosure box
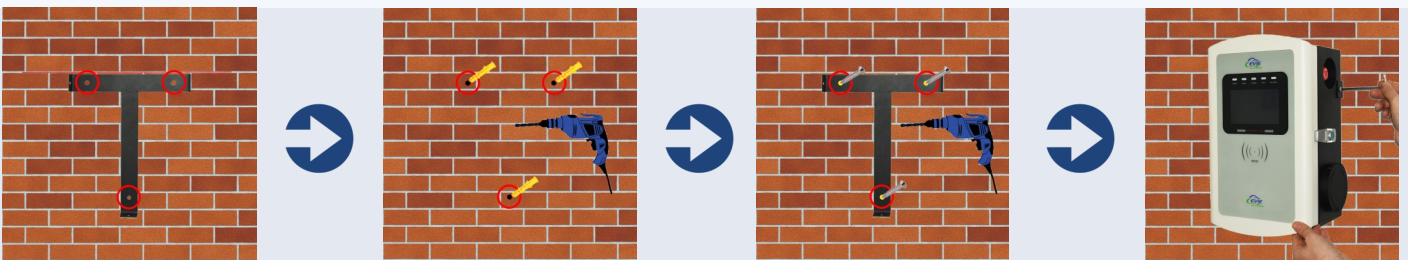
Ground mounting pole:

- Drill 4 holes in the ground using a 12mm diameter percussion drill (Position according to the image below). The depth of the hole should be 80mm
- Install expansion bolts (M8*100) to fix the pole
- Using M5*8 screws, fix the bracket on the pole
- Using M5*10 security screws, fix the box on the bracket (On the sides and the bottom of the unit)
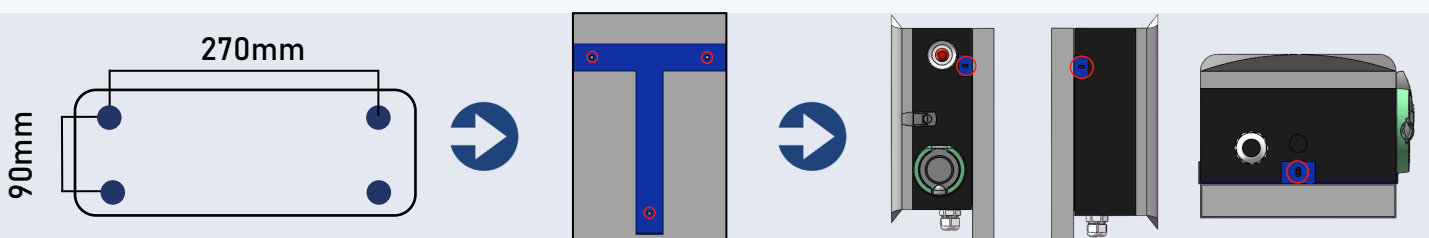
Step 2: Connect the power cables (Live, Neutral and Earth)

- The unit requires an available 40amp dedicated supply from your consumer unit
- Ensure the supply cable is not live and is disconnected
- Connect the power cables via the cable gland to the indicated input position below
- On the Type B RCD you will see an 'L' and 'N' marked (See image below)
- Tighten the Live, Neutral and PE cables firmly into the corresponding terminal connectors (3NM recommended)

PE   N   L
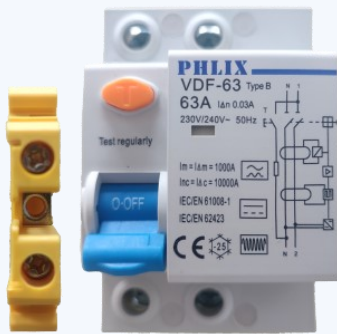
Recommended Torque Values

Items	Cable	Torque Value/ NM
Type B RCD		3 NM
MID Meter	Communication Cable	0.25 NM
	L, N Cable	2 NM
AC Contactor	A1, A2	1.2 NM
	L, N Cable	2.5 NM

Step 3: Tighten the cable gland with the locknut to ensure the input cables are fixed well

Step 4: Check the RCD unit is 'ON"

Step 5: Lock the enclosure

## Step 6: Connect the input cable to the dedicated supply on the consumer unit

Step 7: Check the emergency stop button is at a normal open status

CT Clamp Installation

Step 1: Connect the CAT5E cable to charge point and CT485 adapter (shown below)

Current Transformer (CT) can be used to limit the current drawn by devices to avoid overloading circuits. This is referred to as load balancing.
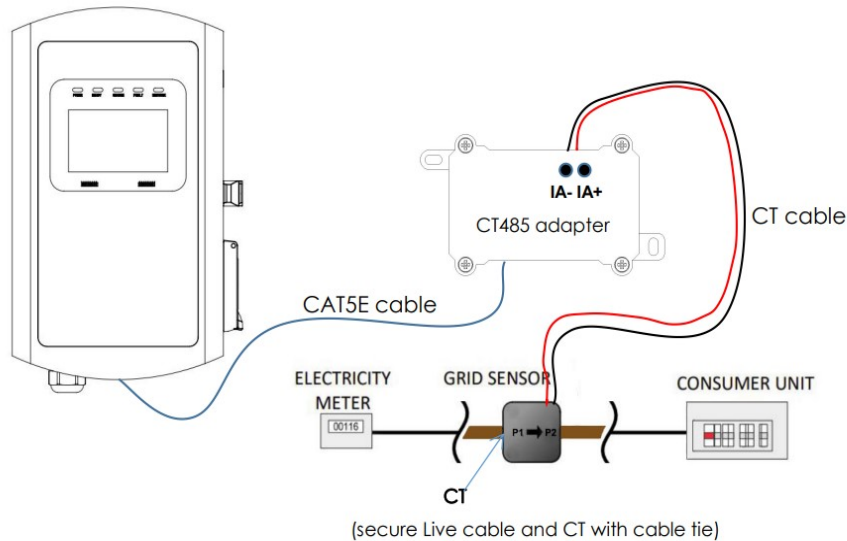
Step 2: Connect CT clamp to the CT485 adapter first, then connect the CT clamp around the live meter tail (shown in image above)

Note:

1. The arrow on the CT clamp must be pointing towards the consumer unit (in the direction of grid import) on the Live cable.
2. The maximum current limit when using a CT is 100a.
3. Be sure to wire the CT the current way: Black [–], red [+].

App Instruction

After installing the CT clamp, you must choose your max home load setting as shown in the picture on the APP. Options are 63a, 80a or 100a.

- Select 'Charger'
- Select 'Settings'
- Turn Home Load Balancing Status on.
- Select from 63a, 80a or 100a.
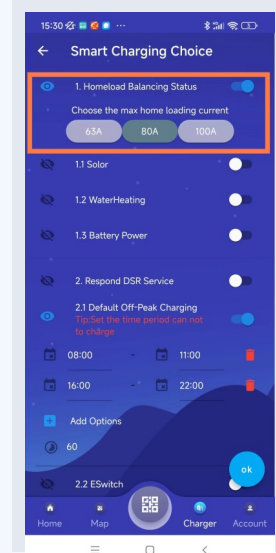
Internet Connection Instructions

Step 1: Click the settings symbol on the LCD screen ⚙

- Enter the password (123456) when prompted
- Select 'Settings'
- Select 'Network'
- Choose internet connection type (Wifi/Ethernet/Lan/4G)
  - Wi-Fi: Press the refresh button to scan for local networks 🔄
  - Wi-Fi: Enter the network password when prompted
- The OCPP symbol will appear green after successful connection to your internet network
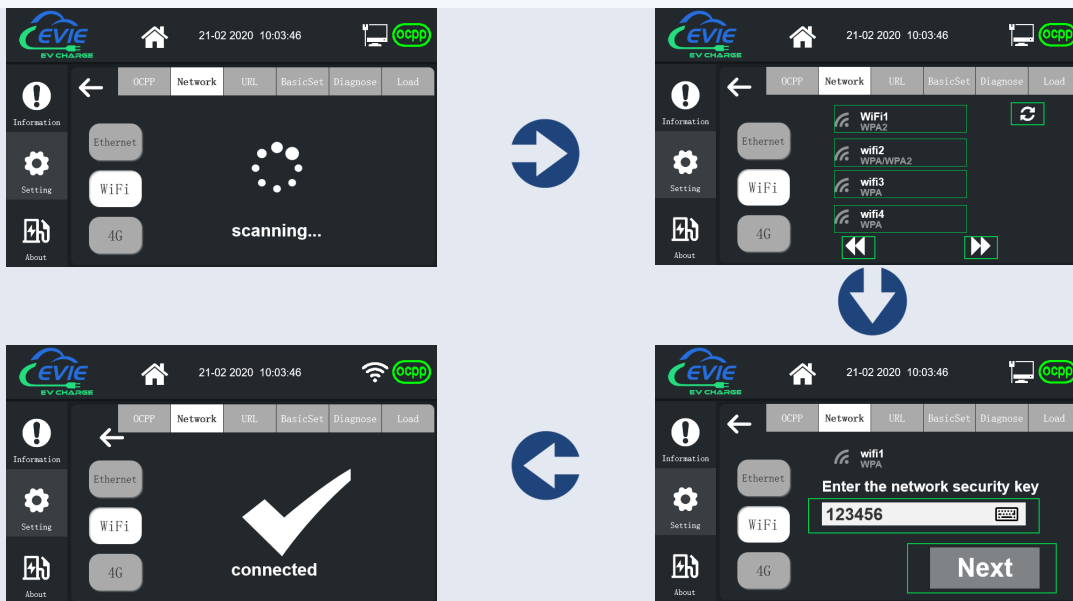
Step 2: Set Date and Time

- Select 'Settings'
- Select 'BasicSet'
- Select 'Time and Date'
- Enter the correct time and date using the keypad
- Click 'Confirm'

Charging Status Indication

Charger Indicator	Function Status
Power = Solid Green	Power supply connected
Ready = Flash Green	Unit ready to charge
Charge= Solid Green	Normal state of charge
Fault = Solid Red	Unit fault alarm
Network = Solid green	Wi-Fi connected

Pheilix App Instructions

Step 1: Download the "Pheilix Smart" app

- Download from the IOS App Store or Google play
- Search "Pheilix Smart" in the stores search bar
- Note: To receive push notifications select enable notifications when prompted or enable notifications through your phone settings

IOS App Store: Pheilix Smart
Utilities

Google play: Pheilix Smart

Step 2: Register your account

- Select Create Account
- Enter your email address
- Press send icon (arrow below, in red)
- A 6 digit verification code will be sent to your email address
- Copy and paste this code into the Pheilix Smart app (shown below)
- Complete the remaining fields in the form, Operator Code is 107.
- Press register
- You will then be granted access to the Pheilix Smart app
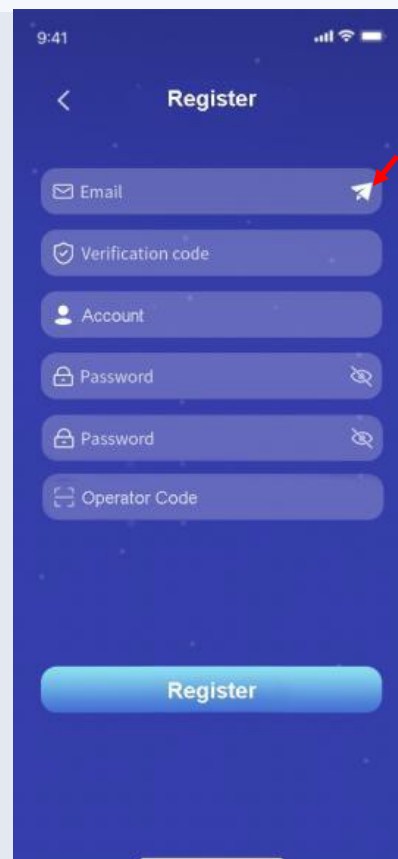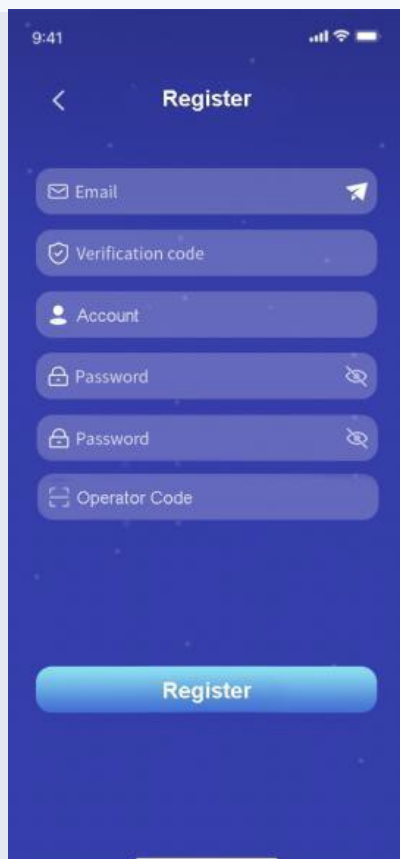
Step 3: Pair your the charger to the Pheilix Smart app

- On the Pheilix Smart App, select 'Charger' from the bottom menu.
- Click 'bind the home device' symbol (shown below).
- Select the 'Scan' symbol (arrow below, in red)
- Scan the QR code on the charger body, click the device once found and this will complete the paring process.
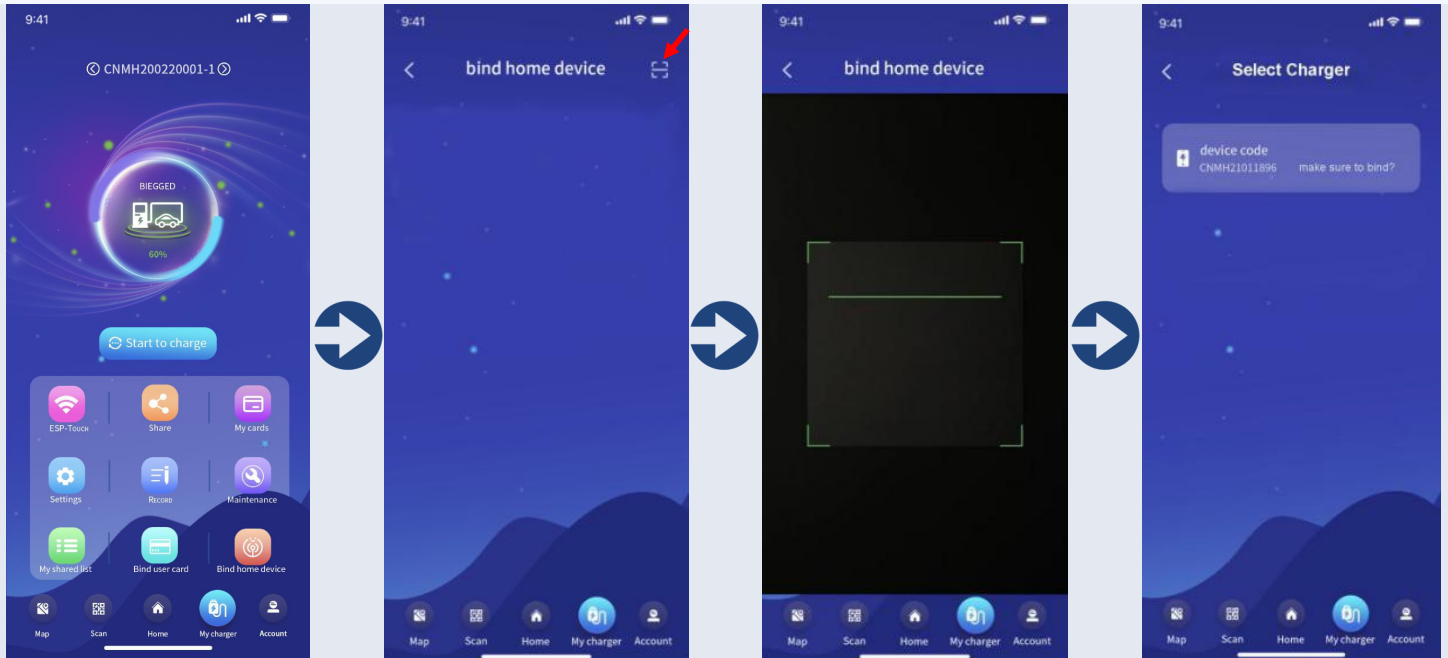
To authorise other users:

- On the Pheilix Smart App select 'Share' by pressing the icon within the app

- Input the email address you wish to share the charge point to

- Press Share

- The device will now show in 'my shared list'

## Step 4: Check the Wi-Fi/4G/Ethernet signal

- Ensure the OCPP symbol on the LCD screen is green
- Ensure all indicators are displaying as below:


Step 5: Start the charging process

- Secure the gun to your electric vehicle
- Choose "Setting"
- Choose On or OFF for Smart Charging Functions (Default Off-Peak, Random Delay, DSR)
- Press 'Start to charge' to start the charging process

Step 6: Select "Stop Charging" on the Pheilix Smart App to stop the charging process
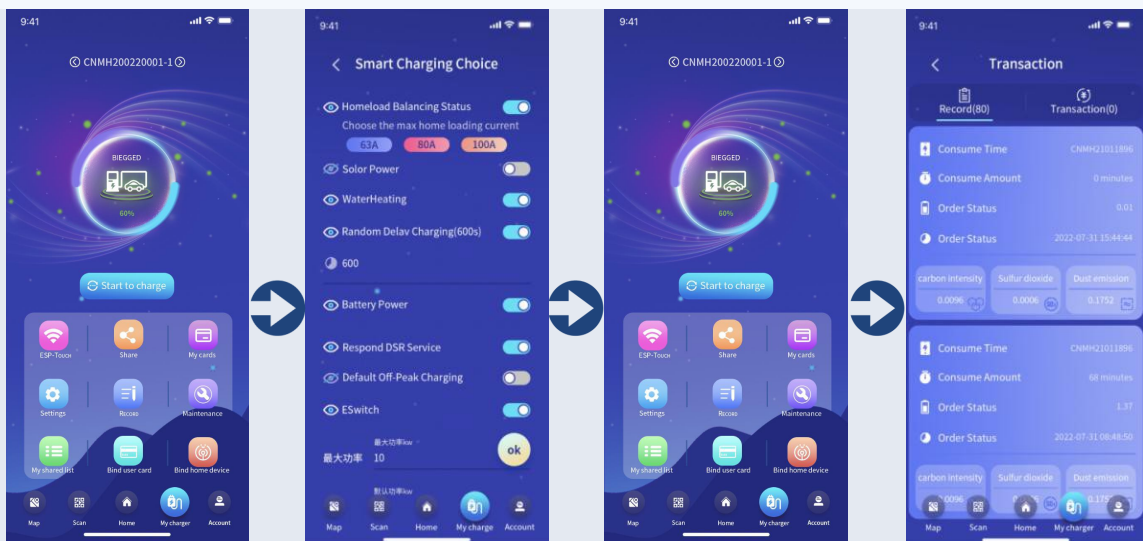
Anti-Tamper Alarming

- The Anti-Tamper function consists of a micro-switch which is wired to the PCB board.
- When the cover is closed, the device will recognise the device as a safe status.
- When the cover is opened, the micro-switch will activate the signal and transmit to the PCB. The PCB will transfer a signal to the OCPP platform, then to the app side to advise the user.

RFID Card Charging Process
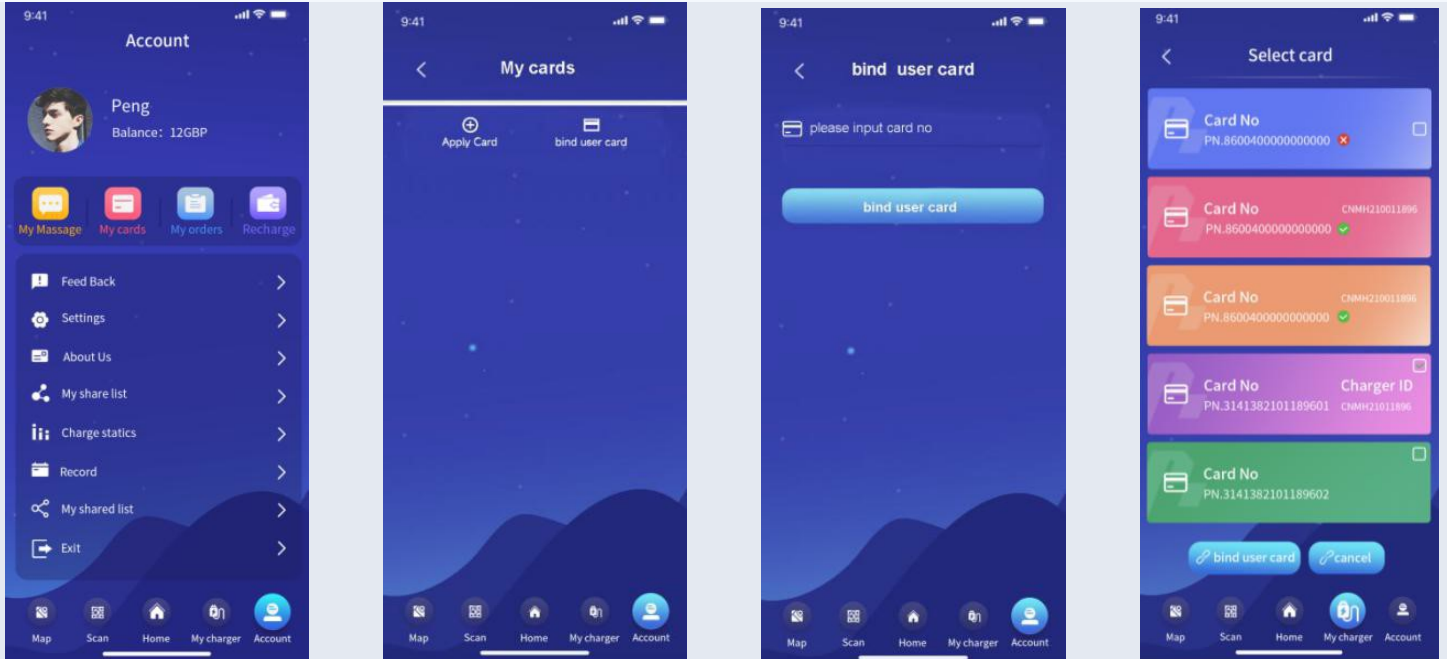
To Bind:

- Tap Account on the app, click 'My cards'
- Then click 'Bind User Card'
- Input serial number on the back of the RFID card and press 'bind user card'. You must complete this process for each card.
- Once inputted, the card will now show
- Tap Charger on the app, click 'bind card' then click the lock sign to bind the RFID card

Operation:

- Connect the charging gun into the unit and the vehicle
- Press 'Start' on the LCD screen
- Tap the RFID card on the unit
- Start charging process

(A user account must be bound to the EVIE unit for the RFID card charging process to work)
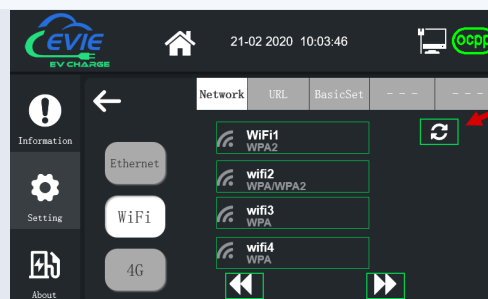
Error Message: Charging Failure

- The charging gun is not plugged into the car correctly
- Plug the charging gun into the vehicle again
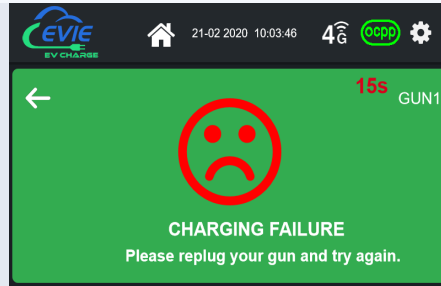
Error Message: Network Failure

- In the event of an error message on the Pheilix app stating the unit is offline OR the 'Network' indicator on the unit flashing green reconnect the Wi-Fi:
- Click the settings symbol on the LCD screen
- Enter the password (123456) when prompted
- Click the settings icon
- Select Wi-Fi
- Select the refresh icon shown below
- Select the preferred Wi-Fi network and enter your network password
- The OCPP symbol will appear green after successful connection to your internet network

Emergency Stop Button

- In the event of any electrical failure or emergency press the emergency stop button
- The unit will stop charging
- An error message on the LCD screen will show (As seen below)
- To reset the unit twist the emergency stop button and the LCD screen will return to the start screen to begin charging again
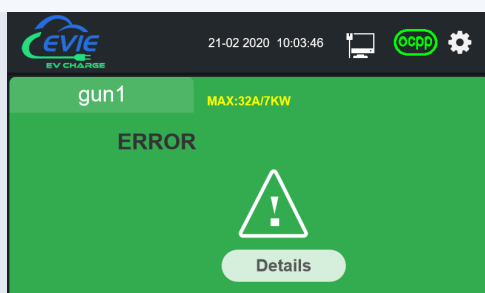
Important Safety Instructions

⚠️

This manual contains instructions that should be followed during installation, operation and maintenance of the EVIE Home Charging unit.

For permanently connected (hardwired) charging stations, the unit must be installed by a qualified electrician and in accordance with the latest 18th edition IET Wiring Regulations.

Please read all instructions before installing and operating the unit. All instruction documents can also be found online at www.eviecharge.co.uk

When using electrical products, basic precautions should always be taken, including the following:

- Do not operate the device if there is visible damage to the unit or charge cord

- Do not put fingers into the charging connector

- Do not install the device near flammable, explosive or combustible materials

- Do not operate the device in temperatures outside the operating range (–30°C ~ +55°C)

- Adult supervision is required when using the device near children

- Do not attempt to repair or service any other part of the unit yourself

- When the unit is charging do not attempt to remove the cable from either the unit or the vehicle. Unlock the vehicle to stop the charging process, allowing you to remove the cable safety

Need Help?

Please contact Moss Electrical Co. Ltd for any questions or assistance:

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