MX7 Installation Guide

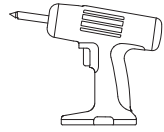
Preparation

Wall Mounting
External Protection
Power Cabling
Electrical Wiring
Current Limit Configuration
CT Clamp
Setting Option

Connecting Charger
Network Configuration

Tools required

Multimeter
(AC/DC)



Electric
Power Drill

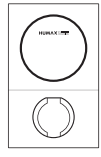
Screwdriver
(PH2 & PH3 & T30)

Diagonal
Pliers

Insulated
Torque Wrench

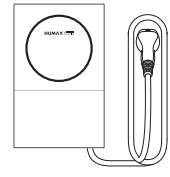
Package Contents

Socket Type



EV Charger
1 EA

Cable Type



EV Charger
1 EA

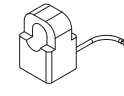
Cable Holster
1 EA

Holster Screw
3 SET

Wall Bracket
1 EA

Installation Screw
4 SET

Cable Gland
1 EA



CT Clamp
1 EA

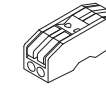
CT Clamp Connector
1 EA

RFID Card
2 EA

Bracket Screw
2 EA

Door Screw
2 EA

Ferrule Terminal
3 EA

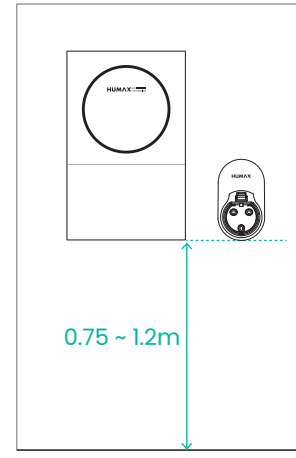


Extension Connector
1 EA

STEP 1

Verify installation environment

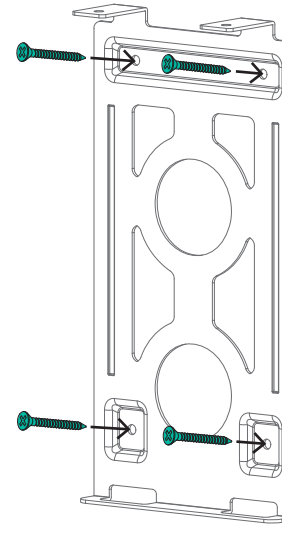
Confirm the wall material is suitable.
: Concrete, lightweight concrete, hard or soft natural stone, masonry bricks or hollow blocks.
Do not install on gypsum board or MDF walls.
Ensure the charger is installed so that the user access point (socket or cable holster) is between 0.75m and 1.2m above the floor.



STEP 2

Mount the bracket

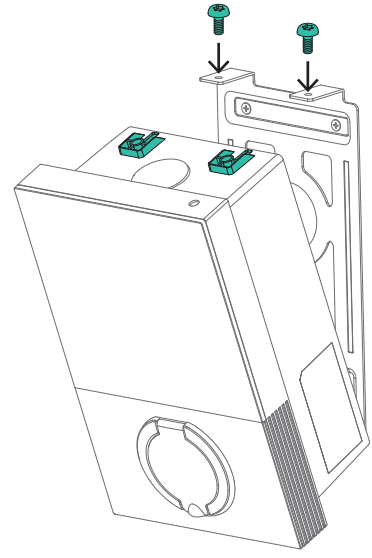
Ensure that the bracket is mounted with the bent L-shaped edge facing upward.
Use a Ø8 drill bit to make holes at the 4 designated fixing points on the wall through the bracket, ensuring a minimum depth of 60mm.
Then, insert the installation anchor (6x30mm) into the drilled holes and fasten the screws.



STEP 3

Secure the charger

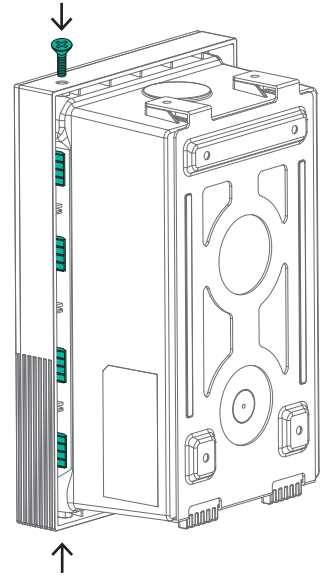
Hang the charger onto the groove of the wall-mounted bracket.
Firmly fasten it using the provided bracket screws (Hexalobular, M6x8mm, 1N·m). After assembly, shake the unit to confirm it is securely mounted with no looseness.



STEP 4

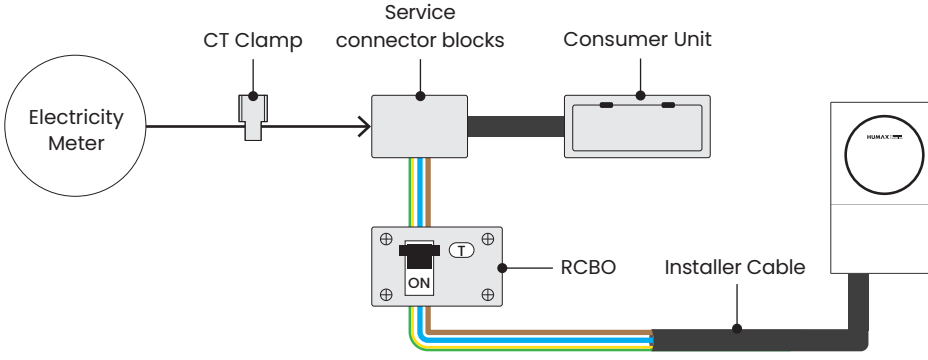
Open the front cover

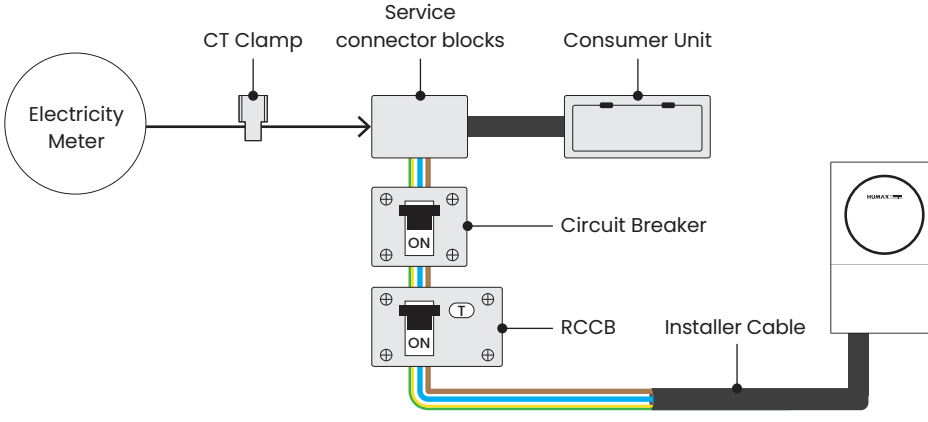
First, release the 4 side hooks on the right side of the charger to open the front cover. After completing all the electrical wiring steps described in the following pages, fasten the screws (M4x8mm, 1N·m) at the top and bottom of the front cover to securely close the unit.



STEP 5 | **RCBO / RCCB installation**

MX7 has integrated RDC-DD, protecting against hazardous DC residual currents over 6mA. Installation of a Type A double-pole RCBO or RCD with 30mA earth leakage protection is required to ensure complete protection from both DC and AC residual current as well as the overcurrent and short-circuit.



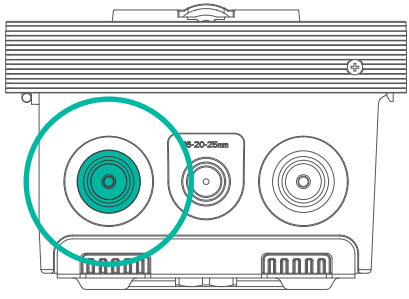


STEP 6 | **Choose your preferred installation method**

You can route the power cable from either the bottom or rear of the unit. This provides flexibility to match your home layout and installation style.

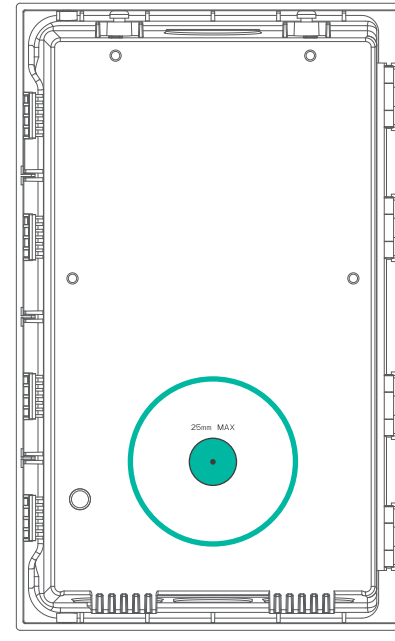
Bottom entry

Use the pre-installed rubber grommet or the cable gland provided in the accessory box. Go to page 10.



Rear entry

After seperating the charger from the bracket, drill the marked circle (Ø25) on the rear panel, and then remove any burrs. Go to page 11.

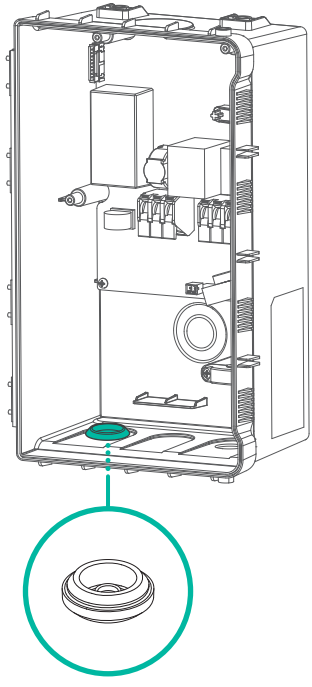


STEP 6-1 | **Bottom entry**

Follow the guide below to insert the power cable using either method. After connection, check for any gaps around the rubber grommet and securely tighten the gland nut.

Rubber grommet

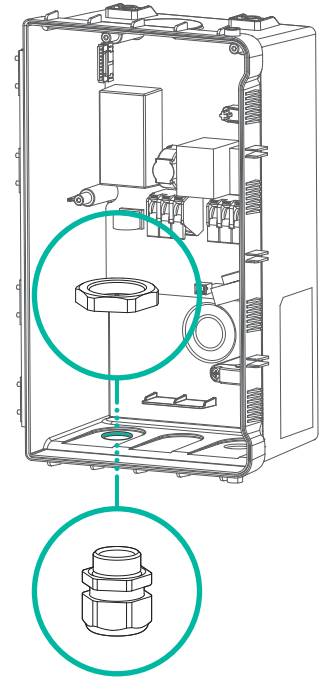
Remove the pre-installed grommet center hole first. Then, insert the power cable through the grommet at the bottom left side of the unit.



Rubber Grommet

Cable gland

Remove the pre-installed rubber grommet, insert the bundled cable gland into the hole. Pass the power cable through, tighten the gland nut (5N·m).

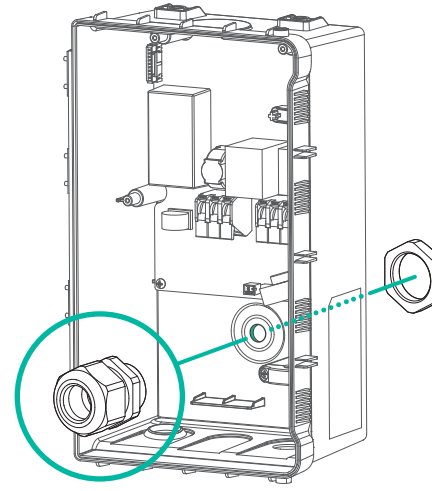


Cable Gland

STEP 6-2 | **Rear entry**

Follow the guide below to insert the power cable using the cable gland.

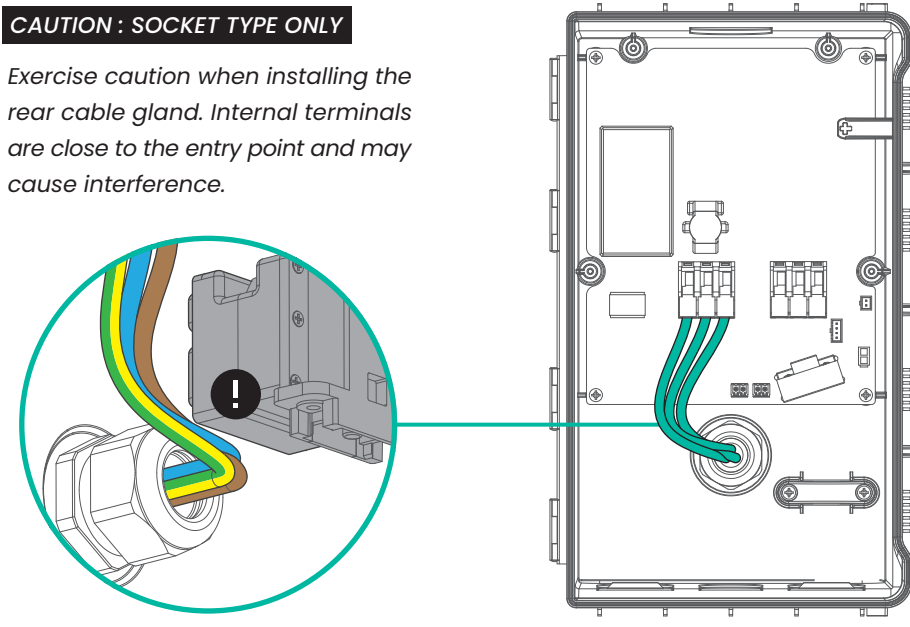
Insert the cable gland into the pre-drilled hole and route the power cable. Tighten the inner gland part securely, ensuring no interference with the terminals.
After completing, mount the charger onto the wall bracket.



Cable Gland

CAUTION : SOCKET TYPE ONLY

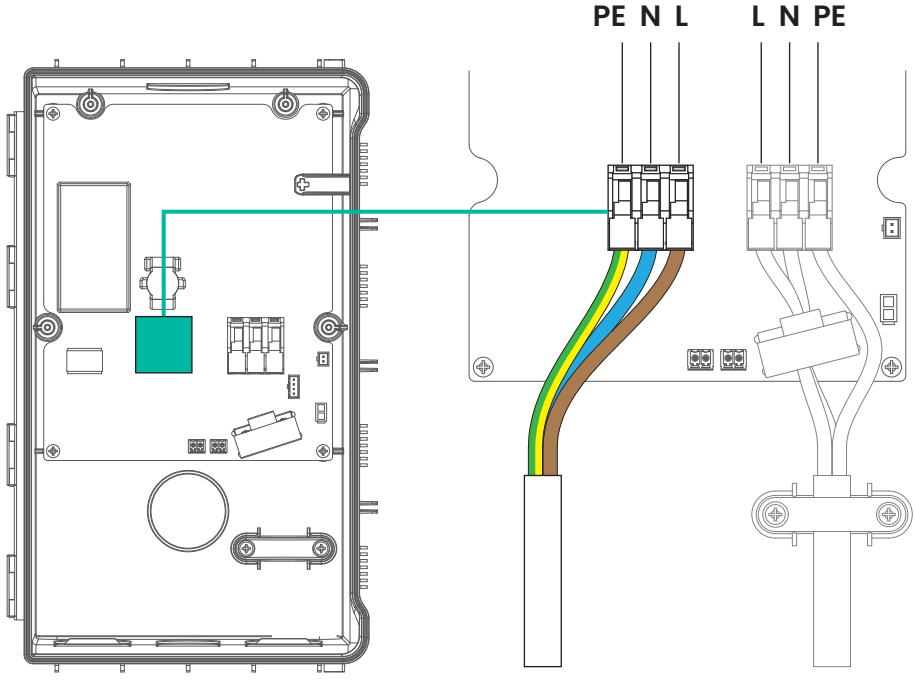
Exercise caution when installing the rear cable gland. Internal terminals are close to the entry point and may cause interference.



STEP 7 | **Connect the power cable**

After routing the power cable, follow the wiring guide below. The wiring instructions are the same for both cable gland and rubber grommet installations. Strip each wire to expose 12mm of copper, and use provided ferrules for stranded wires to ensure a secure connection. Open the terminal block slots by lifting the levers, insert the wires as marked (L, N, PE), then lower and firmly press the levers to secure the cables in place.

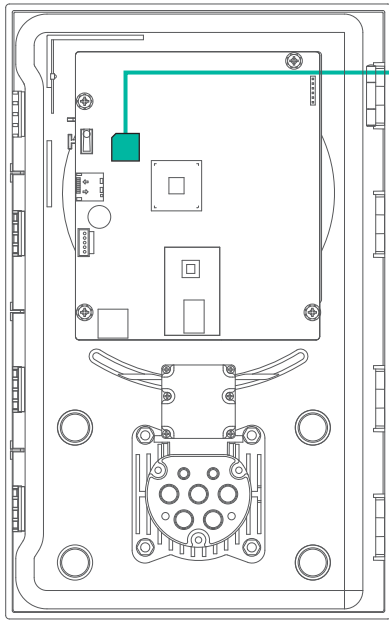
The charger is equipped with PEN fault protection and an automatic disconnection system, compliant with BS 7671:2018 Amendment 2:2022 (clause 722.411.4.1, 18th Edition IET Wiring Regulations).

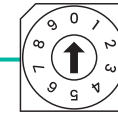


STEP 8 | **Setting the maximum charging current (Rotary switch adjustment)**

The rotary switch limits the EV charger's maximum output current to help prevent overloading the electrical infrastructure. It allows installers to set the current threshold at which load balancing will activate.

Locate the rotary switch inside the charger enclosure (refer to the layout diagram). Use a small flat-head screwdriver to turn the dial to the appropriate number according to the desired maximum current.





Position	Max. Current
0	32A
1	6A
2	9A
3	12A
4	15A
5	18A
6	21A
7	24A
8	27A
9	30A

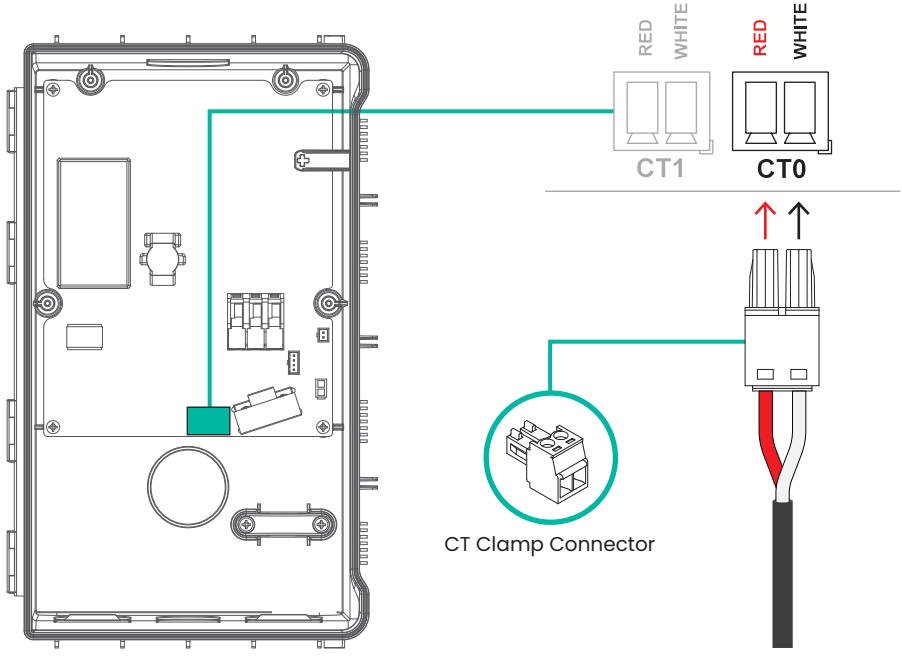
STEP 9 | **CT Clamp installation**

Connect the CT Clamp Cable | Insert the CT clamp cable into the green 2-pin connector. Ensure that the red wire is connected to the left pin and the white wire to the right pin as shown in the illustration image.

Secure the Connector | Firmly press the connector into the CT0 port on the main board. Double-check that the connector is fully seated and matches the pin orientation.

Wiring Note | CT1 port of MX7 is reserved for future use.

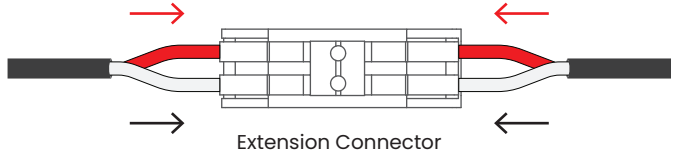
Ensure the power is OFF before connecting the CT clamp. Improper connection may result in incorrect current measurement or device malfunction.



STEP 10 | **CT Clamp cable extension (optional)**

If extra cable length is required, use the CT clamp extension connector from the accessory box. Connect both cable ends as shown below.

- *Ensure the connector is firmly fastened and the wire polarity (red/white) is correct.*
- *Do not cut or splice the CT cable. Always use the designated extension connector for accuracy and safety.*



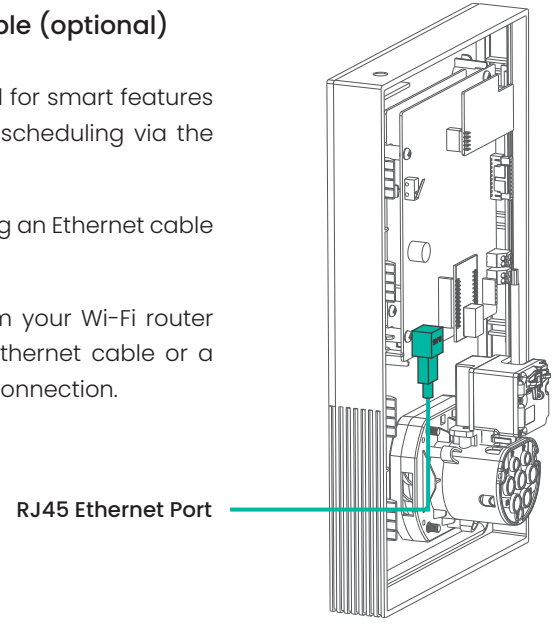
Extension Connector

STEP 11 | **Connect Ethernet cable (optional)**

An internet connection is required for smart features such as remote monitoring and scheduling via the HumaxCharge app.

You can connect the charger using an Ethernet cable or Wi-Fi (802.11 b/g/n).

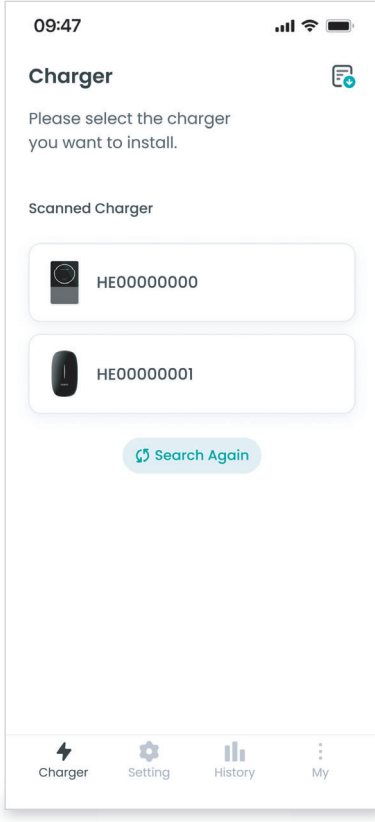
If the charger is installed far from your Wi-Fi router and the signal is weak, use an Ethernet cable or a Wi-Fi extender for a more stable connection.



STEP 1

Start with Bluetooth pairing

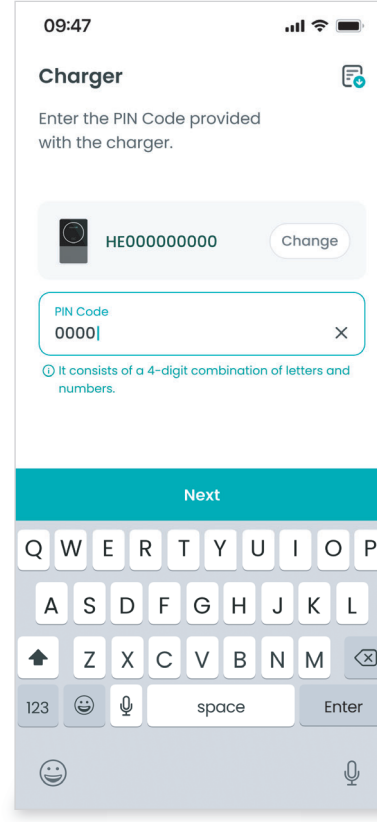
Make sure Bluetooth is enabled on your phone. Stay near the charger during installation for optimal connection.
The app will scan the chargers around you. Choose the charger's serial number from the scanned list.



STEP 2

Enter the PIN code

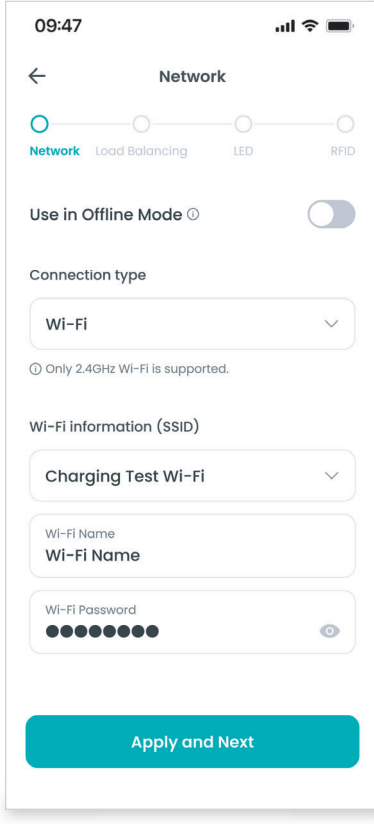
Please enter the 4-digit PIN code located on the sticker on the back of this manual.
Keep this code safe — it might be required for future access.



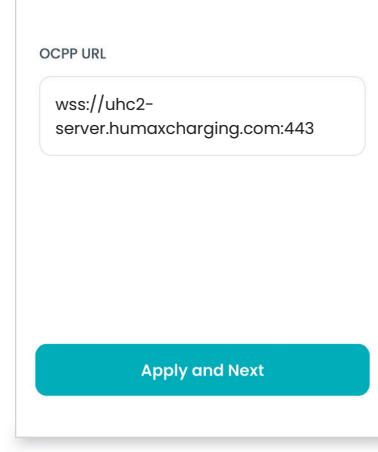
STEP 3

Configure your network

Tap “Setting” to enter network configuration. Enter correct Wi-Fi details to ensure setup. Ensure the OCPP URL is displayed correctly. Default OCPP URL should be used without modification in most cases.
Connecting to the server may take up to 5 minutes.



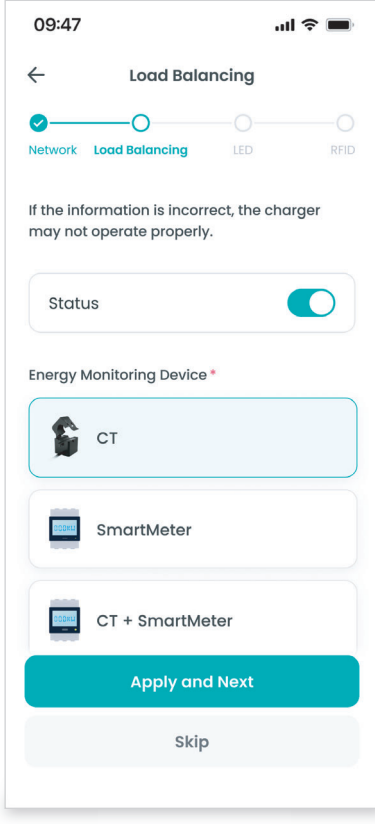
If the OCPP URL does not appear, please reconnect via BLE, or manually enter the OCPP URL as shown below.



STEP 4

Configure load balancing

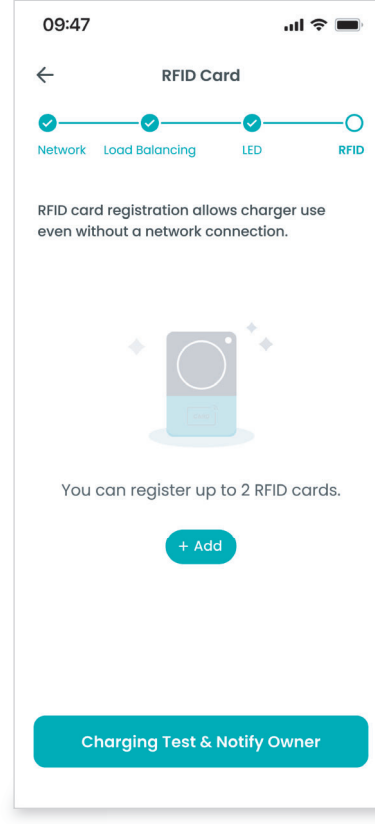
Register the energy monitoring device and set the current limit for your house for the dynamic load balancing.
For the safety, it is recommended to set the current limit 10A lower than the physical RCBO/RCCB's rating current.



STEP 5

Register RFID cards

Register the RFID cards enclosed with the charger by scanning the barcode or entering the card number manually. Once registered, the cards can also be used to start charging in offline mode.



STEP 6

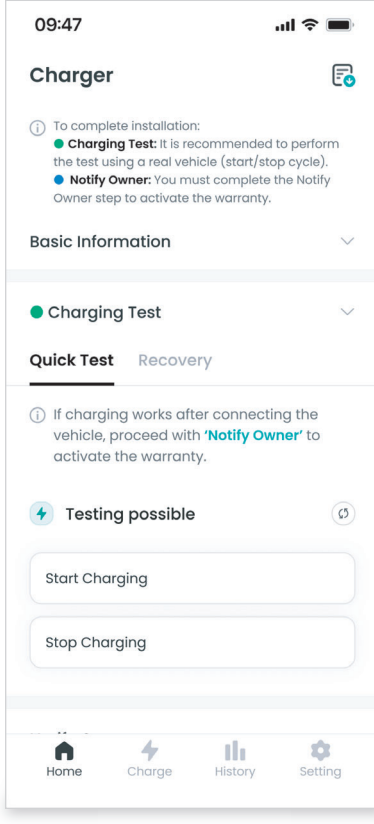
Test the charger

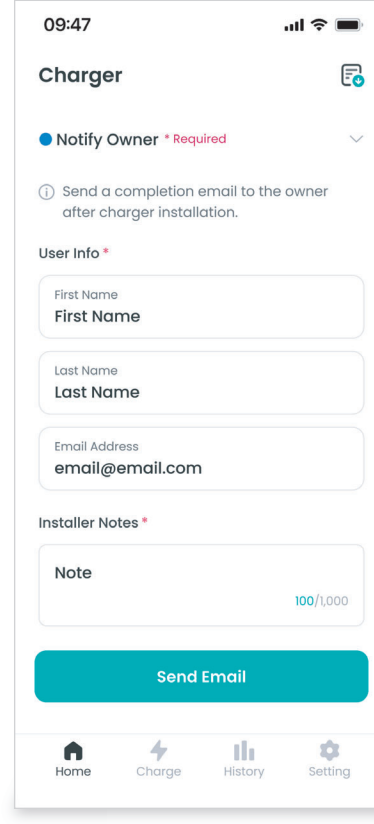
Test the charger by remote charging start/stop to check if the charger is operational through Humax Charger server.

STEP 7

Transfer charger ownership

Enter the user's email address and transfer the ownership of the charger to complete the installation. User will receive the notification email for the installation.





Model HS71007/AM.C0.M0.320B/UK
HS71007/AM5.C0.M0.320B/UK
HS71007U/AM.C0.M0.330B/UK

User App

Installer App

HUMAX

Rev. 1.3

Please note this Manual is subject to change. For the latest versions of all supporting material, please visit the HUMAX Support Hub.

PLACE LABEL HERE