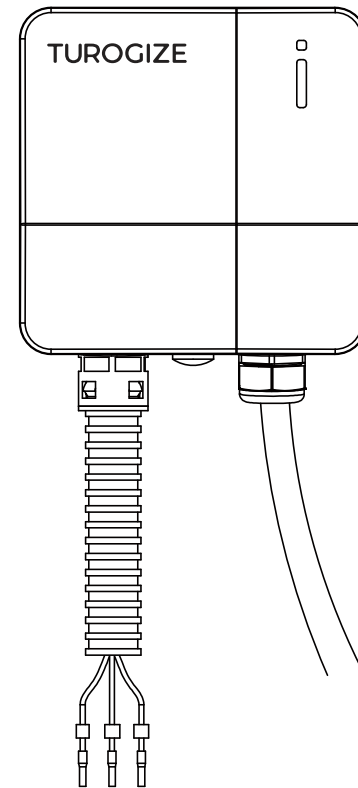


TUROGIZE

AURORA AC Charger User Manual



TGA2-AC-40A
TGA2-AC-48A

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⚠ WARNING & CAUTION

1. Important Safety Instructions

1.1 Overall Warnings & Cautions

- ⚠ WARNING:** To avoid fire, injury or death, carefully read and follow the instructions during installation, operation and maintenance.
 - **DO NOT** put fingers into the electric vehicle connector.
 - **DO NOT** use this product if the flexible power cord or EV cable is frayed, insulation-broken, or any other signs of damage.
 - **DO NOT** use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.
 - **DO NOT** remove cover or attempt to open the enclosure because of risk of electric shock.
- ⚠ WARNING:** This device should be supervised when used around children.
- ⚠ WARNING:** This device must be grounded.
- ⚠ WARNING:** To avoid a risk of fire or electric shock, do not use this device with an extension cord.
- ⚠ WARNING:** The suitability of the use of flexible cord in accordance with CEC code, part I, rule 4-012, is to be determined by the local inspection authority.
- ⚠ WARNING:** To reduce the risk of fire, connect only to a circuit provided branch circuit over-current protection in accordance with the CSA C22.1–15 Canadian Electrical Code, Part 1 (Canada) or NOM-001-SEDE Electrical installations (utility) (Mexico) or ANSI / NFPA 70 National Electrical Code (USA).

Circuit Breaker Options table				
Output Amperage (A)	16A	32A	40A	48A
Circuit Breaker Options (A)	20A	40A	50A	60A

⚠ WARNING & CAUTION

1.2 Installation Requirements

- ⚠ WARNING:** Disconnect electrical power prior to installing the charging station.
- ⚠ WARNING:** Be sure to preview the user manual and ensure local building and electrical codes are reviewed before installing the AC charger.
- ⚠ WARNING:** The AC charger should be installed by a qualified technician according to the user manual and local safety regulations.
- ⚠ CAUTION:** Use appropriate protection when connecting to the main power distribution cable.
- ⚠ CAUTION:** Type B, C or D breaker with the rating current for table should be installed in the upstream AC distribution box.
- ⚠ CAUTION:** The device shall be mounted at height between 600 mm and 1200 mm from ground.
- ⚠ CAUTION:** Please keep the charger in a clean area with low humidity. Not recommended to be installed in coastal environments with high humidity or high dust.

1.3 Daily Maintenance

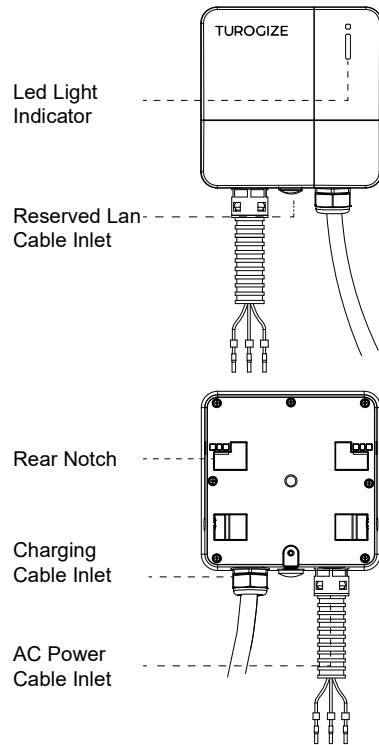
- ⚠ CAUTION:** Avoid moisture or water in the charger. If there is water or moisture ingress in the charger, it is necessary to immediately power off to avoid immediate danger, and notify the professionals to carry out maintenance before next use.
- ⚠ CAUTION:** Please use the charger properly. Do not hit or press hard on the enclosure. If it is damaged, please contact a professional technician.
- ⚠ CAUTION:** Avoid placing the charger near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materials.
- ⚠ CAUTION:** Do not put heavy objects on the charger to avoid danger.

2. Product Introductions

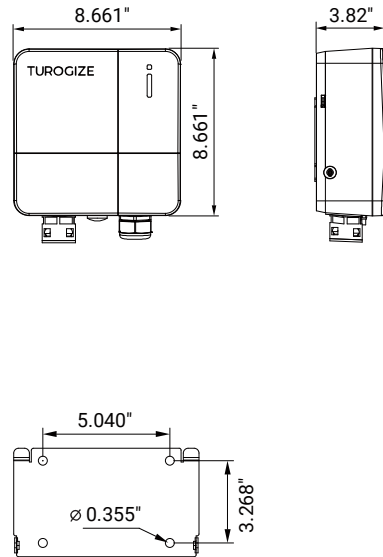


CAUTION: Avoid placing the charger near hot objects and at high temperature locations and away from dangerous substances such as flammable gases and corrosive materials.

2.1 Basic Interface



2.2 Basic Dimension

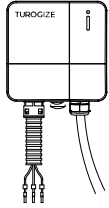


2.3 Specifications

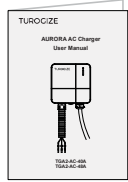
	TGA2-AC-40A	TGA2-AC-48A
POWER		
Input Rating	208~240V AC	
Output Current&Power	9.6KW (40A)	11.5 kW (48A)
Power Wiring	L1 / L2 / GND	
Input Cord	NEMA14-50 Plug	Hard-wire
Mains frequency	50 / 60 Hz	
Connector Type	SAE J1772 Type1 / SAE J3400 NACS (Optional)	
Ground Fault Detection	CCID 20	
Protection	UVP, OVP, RCD (CCID 20), SPD, Ground Fault Protection, OCP, OTP, Control Pilot Fault Protection	
USER INTERFACE		
Status Indication	LED indication	
User Interface	APP	
Connectivity	Wi-Fi (2.4G), Ethernet (Optional)	
User Authentication	Plug & Charge、OCPP1.6J、APP、RFID	
Software Update	OTA	
CERTIFICATION & STANDARDS		
Safety & Compliance	UL991, UL1998, UL2231, UL2594	
Certification	ETL / FCC / Energy Star	
Warranty	2 Year	
GENERAL		
Color	Black	
Enclosure Rating	NEMA4 (IP65), IK08	
Operating Altitude	< 6561ft (2000m)	
Operating Temperature	-22°F ~ +122°F (-30°C ~ +50°C)	
Storage Temperature	-40°F ~ +185°F (-40°C ~ +85°C)	
Operating Humidity	5~95%	
Mounting	Wall mount	
Product Dimensions	8.66" x 8.66" x 3.82" (220mm×220mm×97mm)	

3. Verify Contents

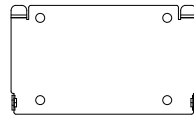
Check the box to ensure you have this installation guide and these parts:



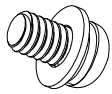
AC Charger ×1



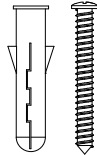
User Manual ×1



Wall-Mounted Bracket ×1(Installed)



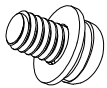
M5 Anti-Theft Round Head Screws ×2(Installed)



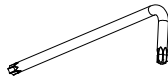
ø10 Expansion Screw ×5



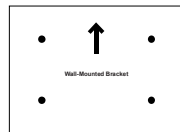
Gasket ×5



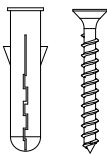
M5 Anti-Theft Round Head Screws ×1(spare)



Allen Wrench ×1



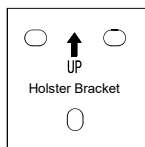
Mounting Template ×1



ø6 Expansion Screws ×3



Plug Holster ×1

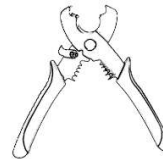


Holster Bracket Template ×1

4. Gather Tools

Tools required before installing the Wall-Mounted charger, gather the following tools:

1. Wire stripper
2. Adjustable Wrench
3. Voltmeter or digital multi-meter (for measuring AC voltage at the installation site)
4. Level
5. Pencil or marker
6. Drill



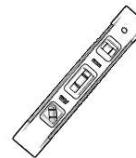
1



2



3



4



5



6

Note: The above tools are very important, please gather them all.

5. Plan The Mounting



WARNING: In areas with frequent thunderstorms, add surge protection at the service panel for all circuits. Ensure all power and ground connections, especially those at the breaker and bus bar, are clean and tight.

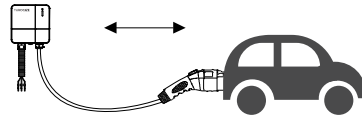


CAUTION: Not recommended to be installed in coastal environments with high humidity or high dust.

STEP 1

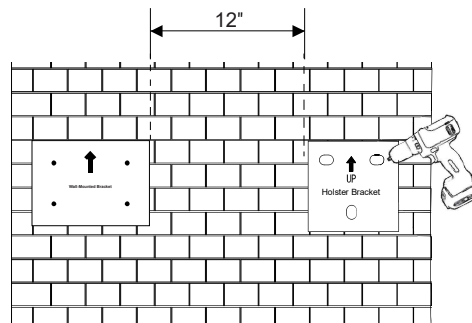
Select the appropriate mounting location with electrical capacity:

- I. Ensure the owner has chosen a mounting location that allows the charging cable to reach the car's charging port while still providing slack.
- II. The device must be anchored into mounting such as 2" x 6" stud or a solid wall.
- III. The device shall be mounted at height between 2 feet (600 mm) and 4 feet (1200 mm) from ground.



STEP 2

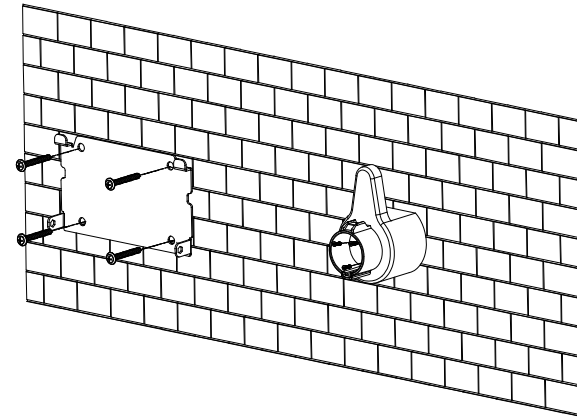
- I. Attach the installation templates in the direction indicated by the arrows.
- II. For the wall-mount template, drill 4 screw holes with a diameter of 0.391" (10mm) and a depth of 1.97" (50mm).
- III. For the plug holster template, drill 3 screw holes with a diameter of 0.236" (6mm) and a depth of 1.18" (30mm).
- IV. Ensure that the two templates are installed horizontally 12" (300mm) apart.



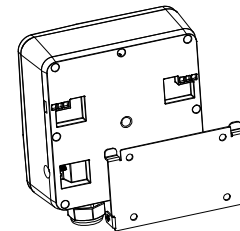
6. Mount the Charging Station

STEP 1

Remove the wall-mounted bracket from the main body. Then use $\varnothing 10$ expansion screws to secure the wall-mounted bracket, and use $\varnothing 5$ expansion screws to secure the Plug Holster.

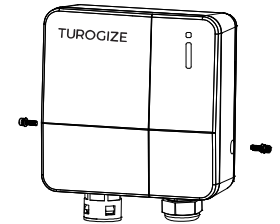


STEP 2



Align the rear groove of the charger with the wall-mount bracket, then tighten the screws on both sides to secure the charger onto the bracket.

STEP 3



Tighten two M5 anti-theft screws to complete the installation.

7. Wire The Circuit



WARNING: This device must be grounded. Disconnect electrical power prior to installing the charging station.



WARNING: Improper connection of the equipment-grounding conductor would result in a risk of electric shock. Check with a qualified electrician or serviceman if you are not sure whether the product is properly grounded. Do not modify the plug provided with the product – if it doesn't fit the outlet, have a proper outlet installed by a qualified electrician.



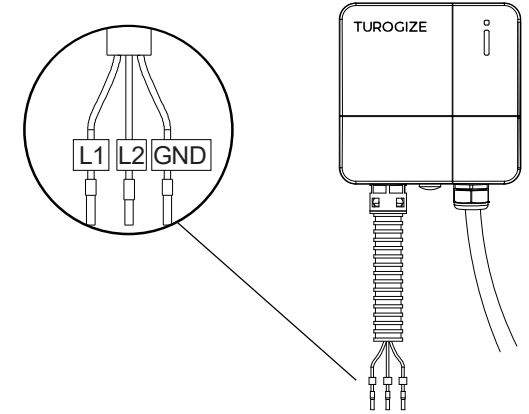
CAUTION: Use appropriate protection when connecting to the main power distribution cable.

Circuit Breaker Options table

Output Amperage (A)	16A	32A	40A	48A
Circuit Breaker Options (A)	20A	40A	50A	60A

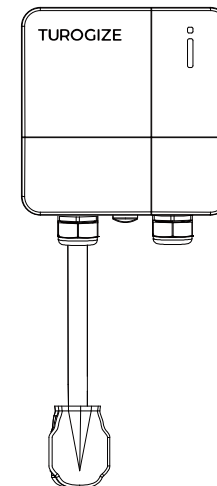
Hard-wire (48A)

For safe use of electricity, please set circuit breaker protection in the input part of EV Charger. The wiring is not complicated, just need to follow the instructions below: Connect the L1 lead to the grid L1, connect the L2 lead to the grid L2, connect the GND lead to the grid GND.



NEMA14-50 Plug (40A)

Plug the NEMA 14-50 connector into the outlet.



8. Light Codes

8.1 After Start UP

Device Status	Light Codes
Power On	Blue, green and red alternate and flash
Standby	Solid Green
Plugged in	Solid Blue
Finished / Stopped Charging	Solid Blue
Authentication	Blue Blinking
Charging In Progress	Blue Breathing
Reservation	Solid Yellow
Device Unavailable	Yellow Blinking
OTA	Yellow Breathing
Fault	Red
Signal Status	Light Codes
No Connection	Red
Internet Connecting	Green Blinking
Internet Connected	Solid Green
Backend Connecting	Blue Blinking
Backend Connected	Solid Blue

8.2 Error and Warning Messages

No.	Fault Status	Red Light	Remark
1	Meter Fault	1 flash followed by 3 sec pause	Auto Recover
2	CP Fault	2 flashes followed by 3 sec pause	Unplug the Connector to Recover
3	UVP	3 flashes followed by 3 sec pause	Auto Recover
4	OVP	4 flashes followed by 3 sec pause	Auto Recover
5	OTP	5 flashes followed by 3 sec pause	Auto Recover
6	OCP	6 flashes followed by 3 sec pause	Unplug the Connector to Recover
7	Ground Fault	7 flashes followed by 3 sec pause	Unplug the Connector to Recover
8	Relay Fault	8 flashes followed by 3 sec pause	Unplug the Connector to Recover
9	RCD Abnormal	9 flashes followed by 3 sec pause	Unplug the Connector to Recover
10	RCD Self-Test Fault	10 flashes followed by 3 sec pause	Reboot to Recover
11	Relay Self-Test Fault	11 flashes followed by 3 sec pause	Reboot to Recover
12	Sensor Fault	12 flashes followed by 3 sec pause	Check sensor or contact Technical support
13	Cable Fault	13 flashes followed by 3 sec pause	Check cable or contact Technical support

9. APP and Network configuration

9.1 Download and Register Charports APP

1) Scan QR code to download APP from IOS or Google APP store.

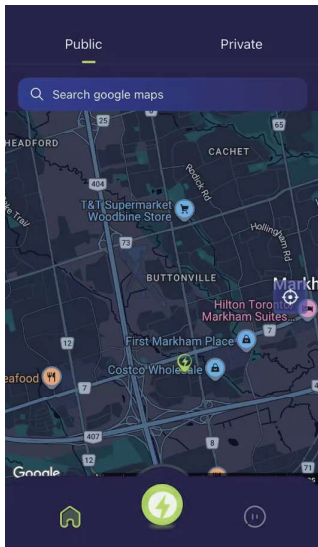


IOS

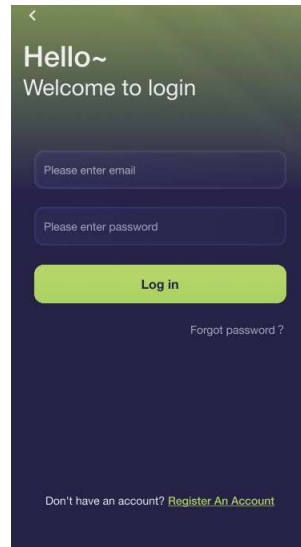


Google

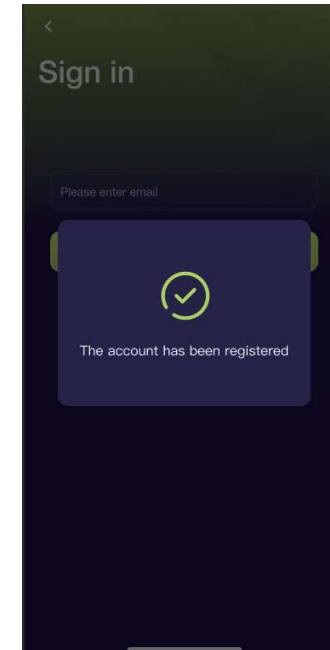
2) Tap "Private" on the top of the page



3) Tap "Register An Account" to create an account.



- Enter a valid email address and create a secure password.
- A verification email will be sent to your inbox.
- Input the verification code into the APP.



- If the email address is already associated with an account, you will be prompted to log in directly.
- Reset your password:
 - If you forget your password, tap "Forgot Password" on the login screen.
 - Enter your registered email address. A verification code will be sent to your inbox. Input the verification code into the APP and follow the on-screen instructions to set a new password.

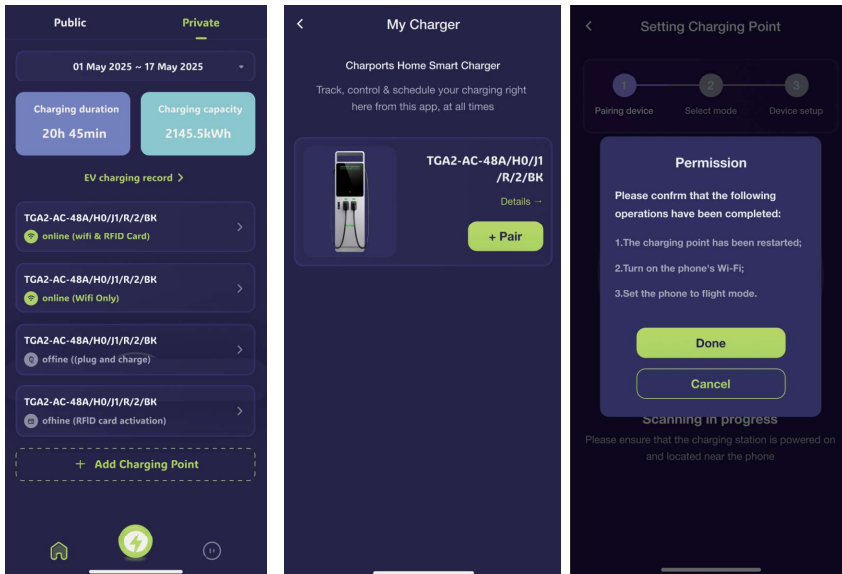
10. Network Configuration and Connect to Charports APP

Before using your EV charger for the first time, complete the following three-step setup process through WIFI. Once finished, you will have full access to all charger controls through the Device Details screen.

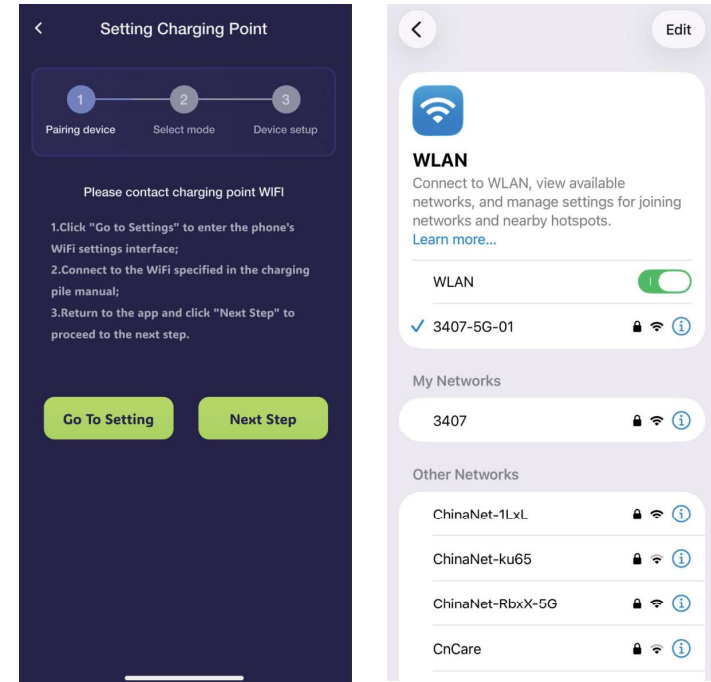
STEP 1

Device Pairing

Ensure the charger is powered on. In Charports APP, navigate to the “Private” tab and tap “Add Charging Point.” Select your charger model, then follow the on-screen prompts to prepare for network pairing — this includes restarting the charger, enabling Wi-Fi on your phone, and switching your phone to Airplane Mode.



When prompted, tap “Go To Settings” to open your phone’s Wi-Fi settings. Connect to the charger’s Wi-Fi network as described in the hardware installation guide. Once connected, return to Charports APP and tap “Next Step” to proceed to connection mode selection.



STEP 2

Select Connection Mode

Based on the available network at the installation site, select either “Online” or “Offline” operating mode.

Online Mode ---

- App + RFID Card: When connected to the internet, charging sessions can be started through the app or by tapping a paired RFID card at the charger.
- App Only: When connected to the internet, charging sessions can only be started through the app.

Offline Mode ---

- Plug-and-Charge: In offline mode, a charging session starts automatically when the vehicle connector is plugged in.
- RFID Card: In offline mode, a charging session is started by tapping a paired RFID card at the charger.



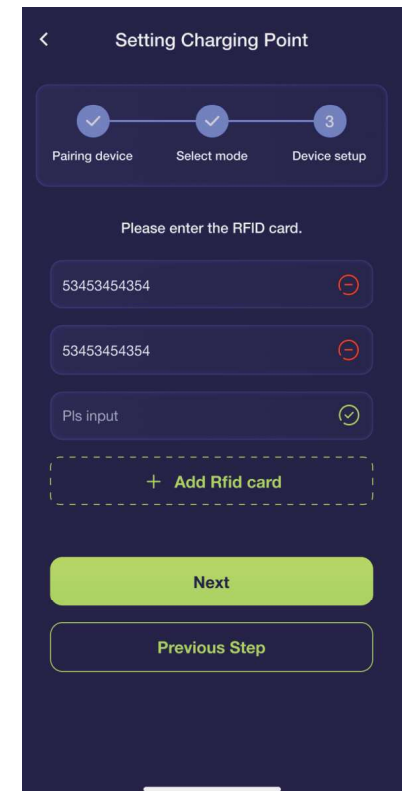
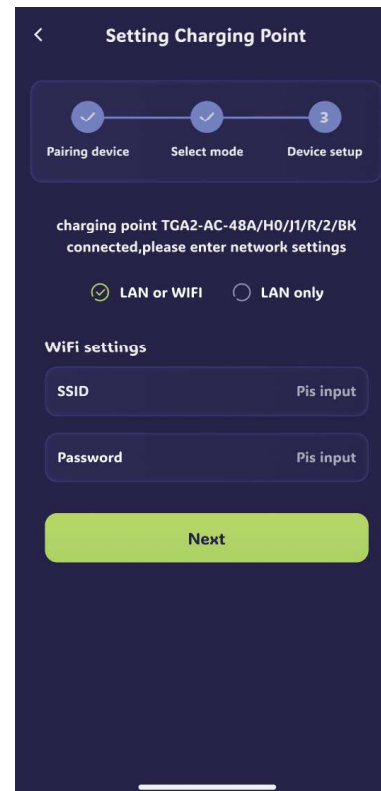
STEP 3

Device Configuration

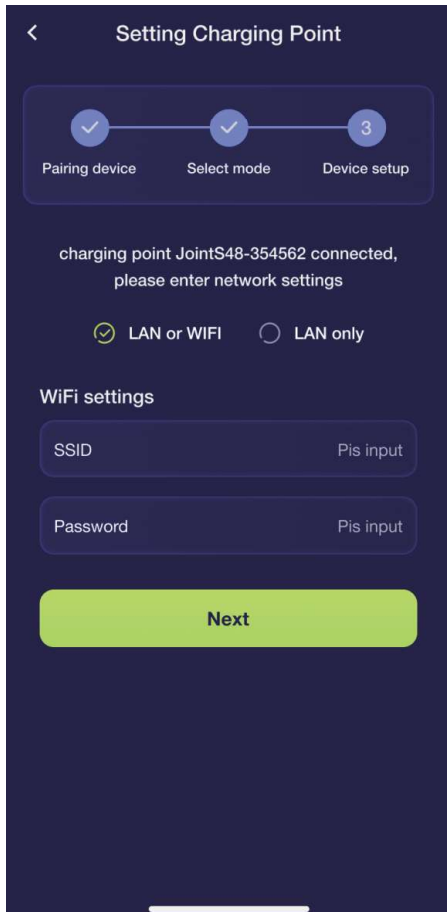
Enter all required configuration parameters, including the network connection method and any RFID card pairings. Review your settings and tap Save to complete the initial setup.

Online Mode ---

- App + RFID Card: Configure the charger's network connection settings and RFID card pairings, then complete the remaining charger settings.

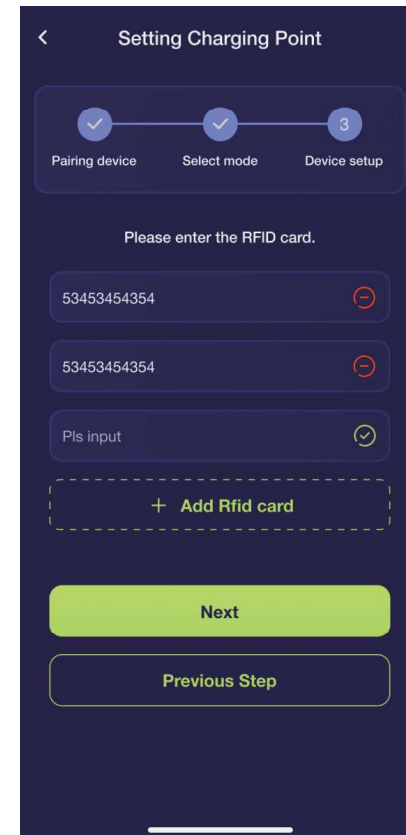


- App Only: Configure the charger's network connection settings, then complete the remaining charger settings.

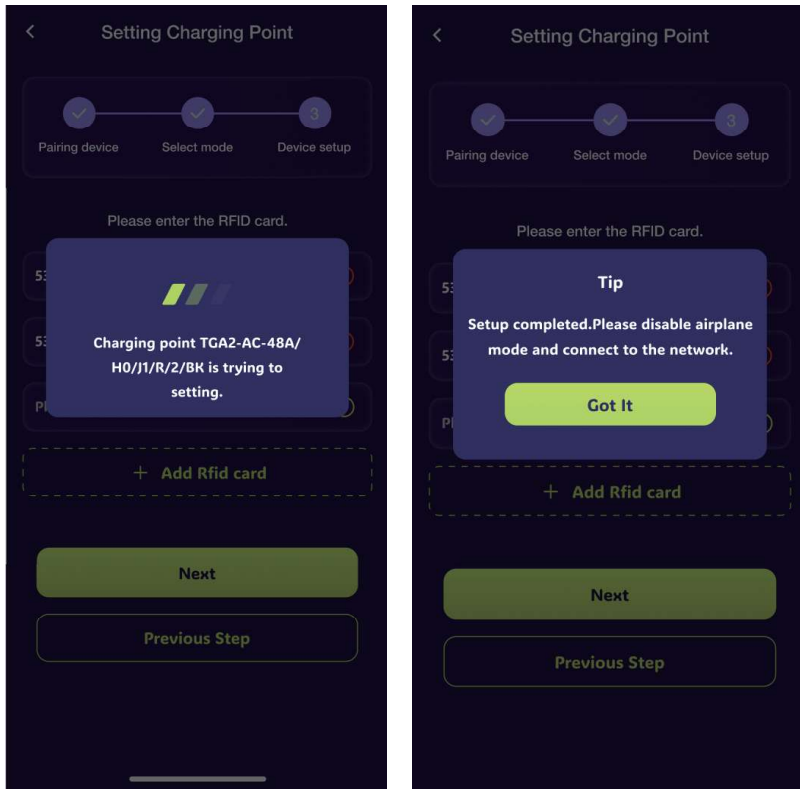


Offline Mode ---

- Plug-and-Charge: No network configuration is required. Proceed directly to the charger settings.
- RFID Card: Configure the RFID card pairing, then complete the remaining charger settings.

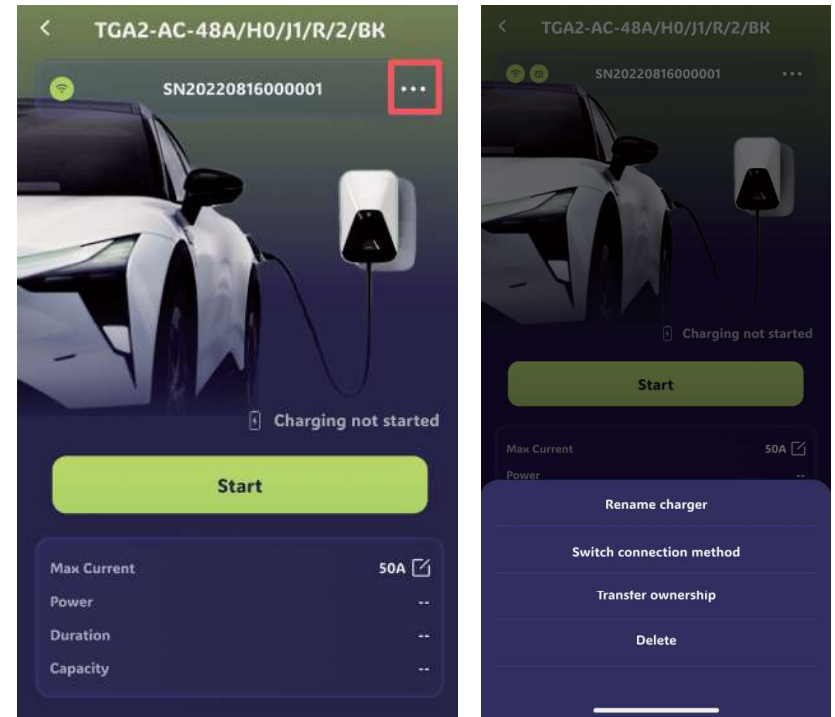


After all settings have been entered and saved, Charports APP will transmit the configuration data to the charger. The charger will restart automatically to apply the new settings. At this point, you may disable Airplane Mode on your phone and reconnect to your regular internet connection.



Once your phone reconnects to the internet, the newly added charger will appear in your Home Charger list.

If you need to change the connection mode at any time, tap “...” on the Charger Details screen and select “Switch Connection Method” to restart the setup process.



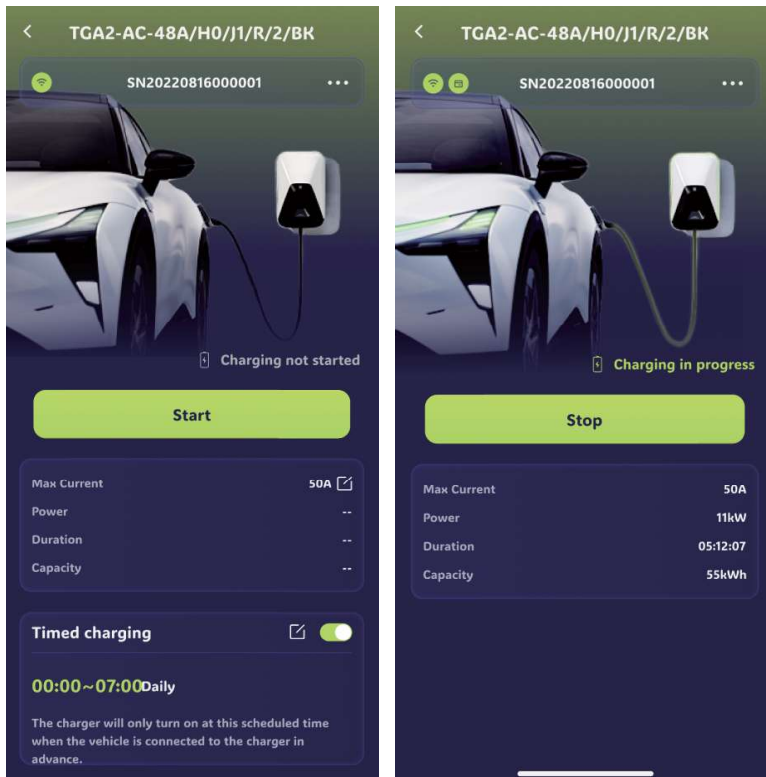
11. Control Your Charger Through APP

Once your charger has been successfully added, tap on it to open the Device Details screen, where you can access the following controls:

1) Charge Session Control

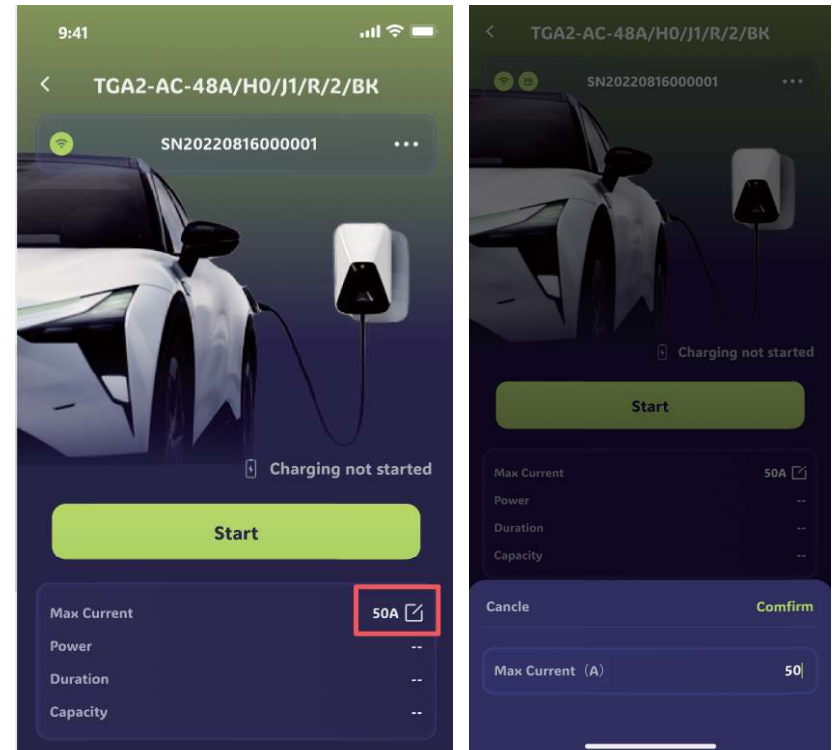
In Online mode, you can start and stop charging sessions directly from APP.

- Start Charging: Tap “Start” to begin a charging session.
- Stop Charging: Tap “Stop” at any time to end the charging session immediately.



2) Current Limit Adjustment

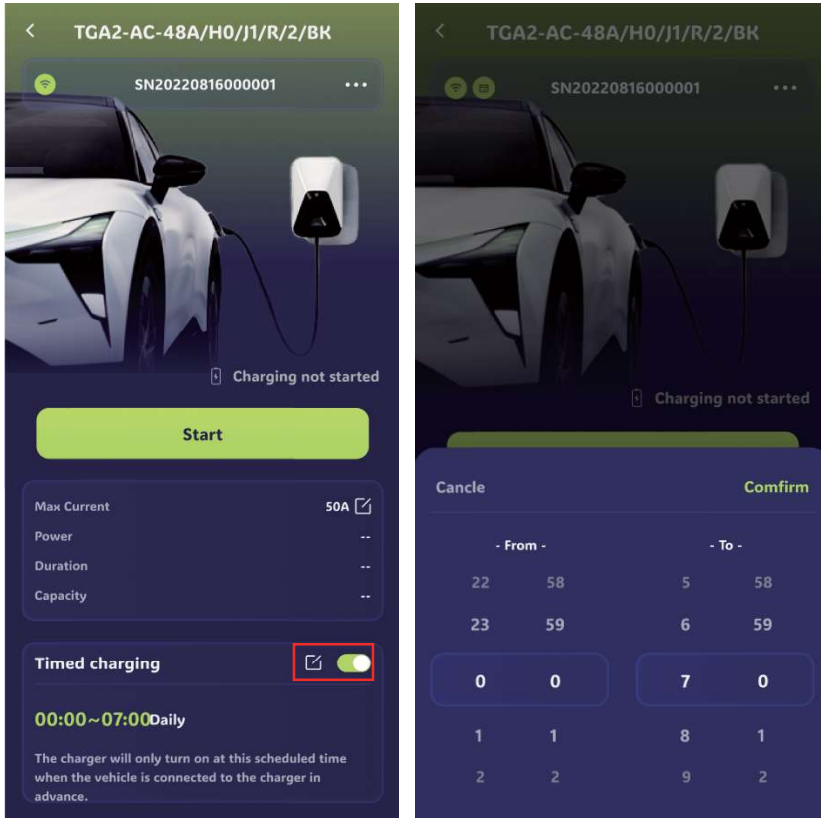
Maximum Current Setting: In Online mode, tap the current settings option and enter a value to cap the maximum output current. This helps protect your home's electrical panel and manage load on your electrical service.



3) Scheduled Charging

Time Window Setting: Set a specific start and end time for automatic charging.

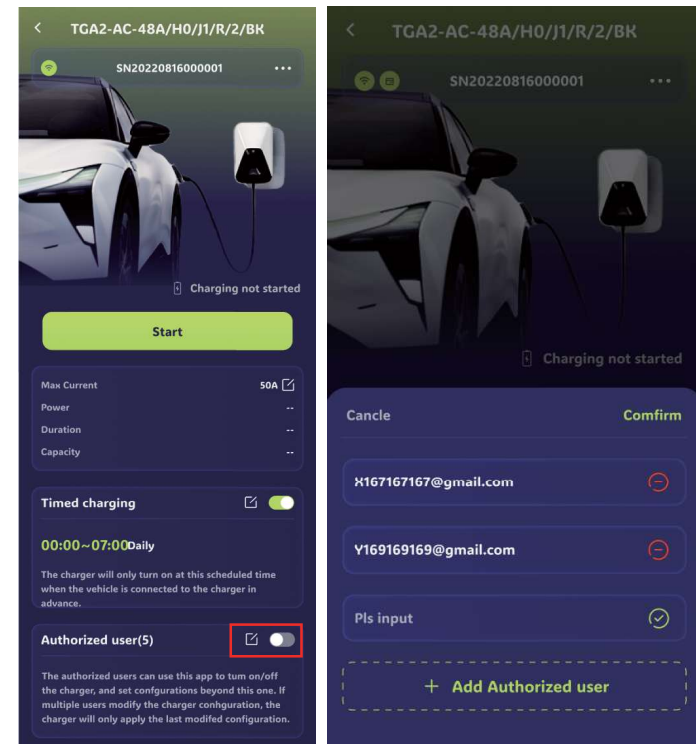
For example, you can schedule sessions during off-peak hours — such as overnight — to take advantage of lower electricity rates available under time-of-use (TOU) programs offered by many Canadian utilities.



4) Authorized User Management

Add / View Users: Manage the list of accounts that have permission to control this charger.

Authorized users can view this charger in their Home Charger list and start or stop charging sessions through the APP.



12. FCC Declaration

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

This device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation.

Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WIFI module: Containing FCC ID: 2AC7Z-ESPWROOM32UE

To satisfy FCC RF exposure requirements, a separation distance of 20cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

13. Warranty and Maintenance

- The warranty period for this charger is two years.
- During the warranty period for any malfunction under normal use according to the User Manual and Service Instructions (to be determined by certified maintenance technicians of sellers), the product shall be repaired free of charge. Except for the following situations, the charger shall be subject to the above warranty terms:
 1. The warranty certificate cannot be provided or the contents of the warranty certificate are modified or inconsistent with the label indication of the repaired product.
 2. Those who are unable to provide valid proof of purchase.
 3. Those who exceed the manufacturer's specified warranty period.
 4. Those who damage the product due to not following the product service instruction for use, maintenance and storage.
 5. Damage or malfunction caused by external object entering.
 6. Unauthorized repair, disassembly or modification.
 7. Damage caused by force majeure (such as lightning, excessive voltage, earthquake, fire, flood, etc.).
 8. Malfunction and damage caused by other unavoidable external factors. Malfunction and damage caused by improper use of equipment, such as water or other solutions entering into the equipment.
 9. Malfunction and damage caused by the grid power supply and voltage which is not specified for use with the charger equipment.

The above guarantees shall be made solely, and no other express or implied warranties shall be made (including the implied warranties of merchant ability, particular and applicable reasonableness and adaptability, etc.) whether in the contract, civil negligence, or other aspects, the Company shall not be responsible for any special, incidental or consequential damages.