

TOPDON

PulseQ

AC Pro

US Version



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Section 1 - Precautions

1.1 IMPORTANT SAFETY PRECAUTIONS



WARNING - When using electric products, the tool's safety precautions should always be followed. Follow the instructions below closely.

1. Read all the instructions before using this product. This manual contains important instructions for the PulseQ AC Pro charger which shall be followed during the installation, operation, and maintenance of the charger.
2. Children should be supervised if they are in the vicinity of the PulseQ AC Pro while the PulseQ AC Pro is in use. Children should not use this device.
3. Do not put any of your or another person's body, clothing, or accessories into the tool's electric vehicle connector.
4. Do not use this product if the charging cable is frayed, has broken insulation, or has any other signs of damage.
5. Do not use this product if the enclosure or the charging plug is broken, cracked, open, or shows any other indication of damage.
6. Note the the operating temperature rating (-30°C to +50°C).

1.2 SAFETY NOTES

1.2.1 Safety Signs Used

The following types of signs are used in this manual and on the charger. They must be adhered to.



CAUTION: Warns of electrical hazards.

This sign is intended to alert the user that severe personal injury or substantial property damage can result if the device is not operated as requested.



ATTENTION: Warns of a dangerous spot or dangerous situation.

This sign is intended to alert the user that minor personal injury or material damage can result if the device is not operated as requested.



CAUTION: Do not touch in case of Electrostatic Discharge (ESD).
Indicates possible consequences of touching electrostatically sensitive components.



No access for unauthorized persons.



Wear safety gloves



Use protective footwear.



Must wear a safety helmet.



Indicates important texts, notes, or tips.

1.2.2 Safety Precautions for Installation



Safety gear (helmet, gloves & protective footwear) must be worn when installing the EV charger.



Installation must be performed carefully due to the risk of electric shock.
The charger must be installed vertically to allow for ventilation. Do not install on surfaces that vibrate or where the device could be at risk of impact.

Install in noncombustible areas due to risk of fire.

Do not drop any foreign objects, especially metal objects, inside the charger due to a risk of fire.

1.2.3 Safety Precautions for Operation



It is strictly forbidden for minors or persons of restricted capacity to be near the charger while in operation. This is to avoid injury.

Forced charging is strictly forbidden when the electric vehicle or charger fails.



The electric vehicles can only be charged when the engine is off and the vehicle is stationary. Do not charge in rainy and thunderous weather.

Do not use the charger if the charging plug or charging cable is defective, cracked, worn, broken or the charging cable is exposed.

1.2.4 Safety Precautions for Maintenance



Personnel must always wear protective gloves and footwear when performing maintenance work.



It is recommended that the charger is routinely inspected at least once a week. Do not put flammable, explosive, or combustible materials, chemicals, combustible vapors, or other dangerous goods near the charger, due to risk of fire.



Keep the charging plug clean and dry. Wipe with a clean, dry cloth if soiled.

Section 1 - PRÉCAUTIONS

1.1 CONSIGNES DE SÉCURITÉ IMPORTANTES



AVERTISSEMENT- Lors de l'utilisation de produits électriques, des précautions de base doivent toujours être suivies, y compris les suivantes.

1. Lisez toutes les instructions avant d'utiliser ce produit. Ce manuel contient des instructions importantes pour les modèles PulseQ AC Pro qui doivent être suivies pendant l'installation, l'utilisation et la maintenance de l'unité.
2. Cet appareil doit être surveillé lorsqu'il est utilisé à proximité d'enfants. Les enfants ne doivent pas utiliser cet appareil.
3. Ne placez aucun objet, vêtement ou accessoire sur vous-même ou sur celui d'une autre personne dans le connecteur du véhicule électrique.
4. N'utilisez pas ce produit si le câble de charge est effiloché, a une isolation cassée ou tout autre signe de dommage.
5. N'utilisez pas ce produit si le boîtier ou le connecteur EV est cassé, fissuré, ouvert ou montre toute autre indication de dommage.
6. Indiquez la température ambiante, de -30 °C à 50 °C.

1.2 NOTES DE SÉCURITÉ

1.2.1 Signes de sécurité utilisés

Les panneaux d'avertissement, panneaux obligatoires et panneaux d'information suivants sont utilisés dans le manuel d'utilisation, sur et dans la station de charge:



MISE EN GARDE: Avertissement de risques électriques.

Ce signe est destiné à alerter l'utilisateur que des blessures graves ou des dommages matériels importants peuvent survenir si l'appareil n'est pas utilisé comme demandé.



ATTENTION: Avertissement d'un point de danger ou d'une situation dangereuse.

Ce signe est destiné à alerter l'utilisateur que des blessures légères ou des dommages matériels peuvent survenir si l'appareil n'est pas utilisé comme demandé.



MISE EN GARDE: En cas de décharge électrostatique, ne touchez pas à la main. Indique les conséquences possibles du contact avec des composants sensibles à l'électricité statique.



Pas d'accès pour les personnes non autorisées.



Portez des gants de sécurité.



Utilisez des chaussures de protection.



Doit porter un casque de sécurité.



Représente un texte, une note ou un indice important.

1.2.2 Précautions de sécurité pour l'installation



Un équipement de sécurité (casque, gants et chaussures de protection) doit être porté lors de l'installation du chargeur EV.



L'installation doit être effectuée par du personnel qualifié, faute de quoi il y a un risque d'électrocution.

Il doit être installé à l'endroit sans vibrations et chocs violents, et placé verticalement pour faciliter la ventilation. Il doit être installé sur des matériaux incombustibles, ou il existe un risque d'incendie.

Aucun objet étranger, en particulier un objet métallique, ne doit être placé dans le chargeur sans risque d'incendie.

1.2.3 Précautions de sécurité pour le fonctionnement



Il est strictement interdit aux mineurs ou aux personnes dont la capacité de mouvement est limitée d'avoir accès au chargeur pour éviter les blessures. La charge forcée est interdite en cas de panne du véhicule électrique ou du chargeur.



Le véhicule électrique ne peut être rechargé que si le moteur est éteint et statique. Il ne faut pas recharger les jours de pluie et les orages.

L'utilisation de chargeur est strictement interdite lorsque l'adaptateur de

charge ou le câble de charge présente des défauts, des défauts, des défauts, de l'usure, de la rupture ou de la nudité.

1.2.4 Précautions de sécurité pour l'entretien



Le personnel doit toujours porter gants et chaussures de protection lors des travaux de maintenance.



Il est recommandé que le chargeur fasse l'objet d'un contrôle de sécurité au moins une fois par semaine.

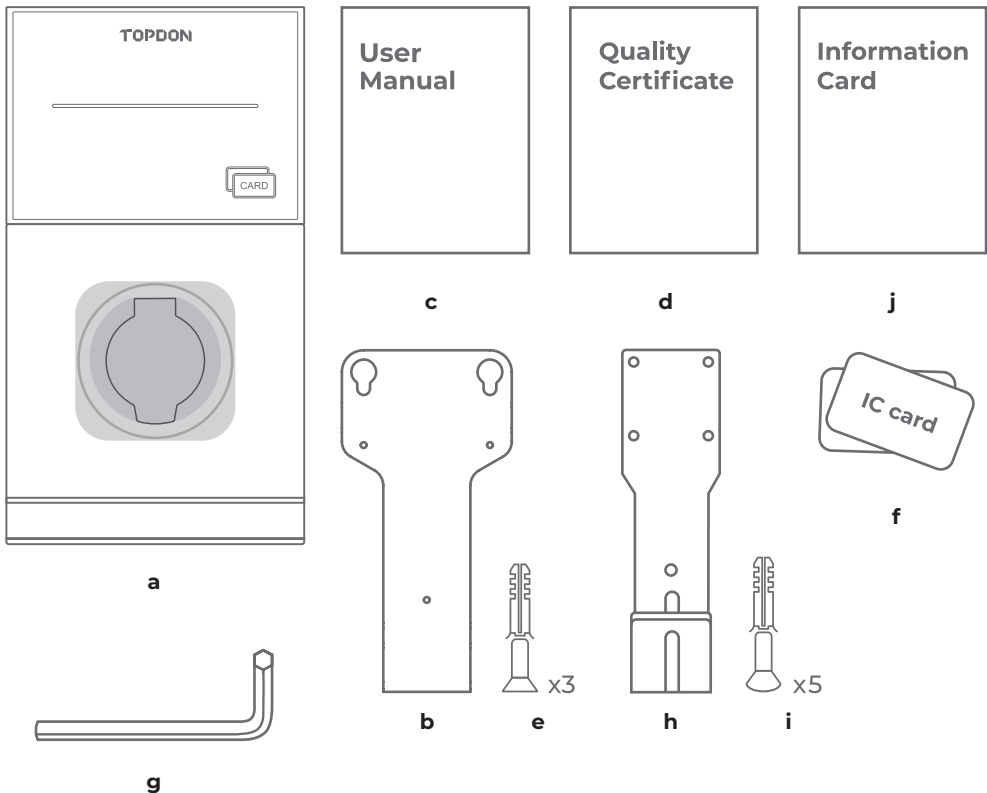
Il est interdit de placer des substances dangereuses telles que des matières inflammables, explosives ou inflammables, des produits chimiques, des vapeurs inflammables à proximité des chargeurs, faute de quoi il y a un risque d'incendie.



Maintenir le câble de charge propre et sec, en cas de saleté, et l'essuyer avec une toile sèche propre.

Section 2 - What's in the Box?

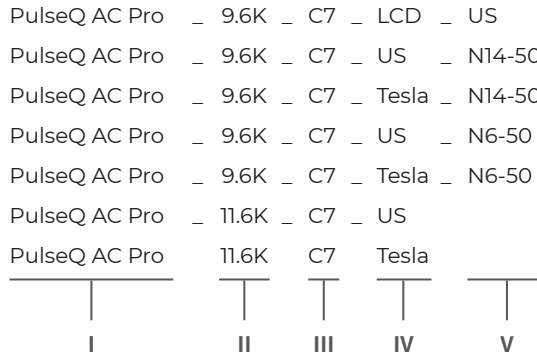
- a. AC EV Charger 1
- b. Mounting Template 1
- c. Information Card 1
- d. Quality Certificate 1
- e. M5x40mm Expansion Bolt 3
- f. Charging Card 2
- g. Hex Screwdriver 1
- h. EV Charger Wall-Mount Cable Hook 1
- i. M5x40mm Expansion Bolt (for Cable Hook) 5
- j. Information Card 1



Section 3 - Product Overview

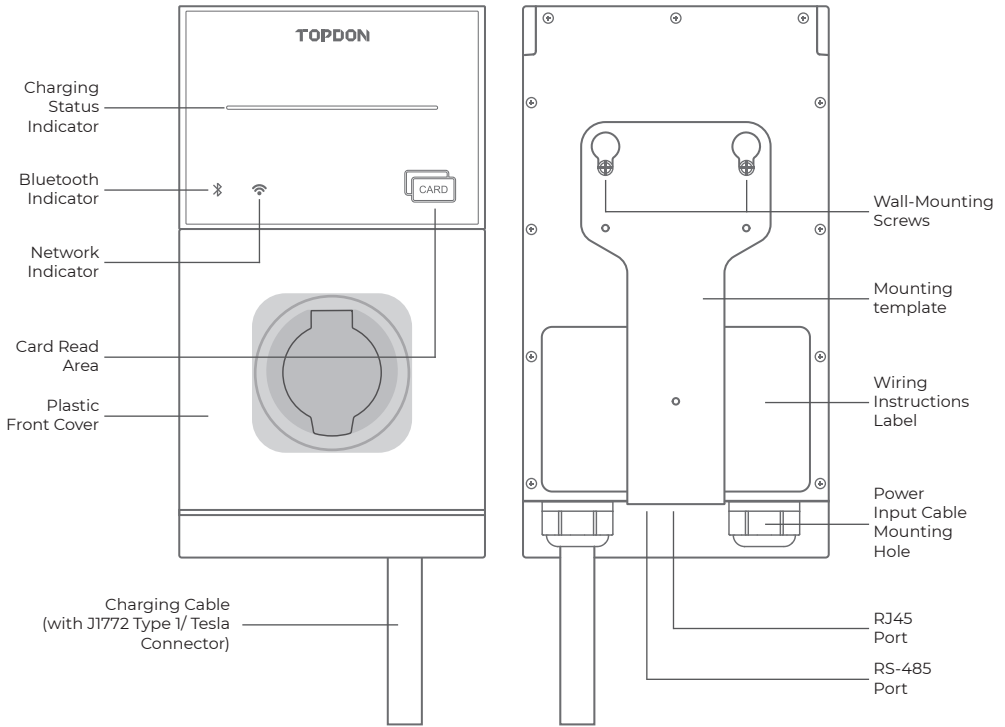
3.1 Naming Conventions

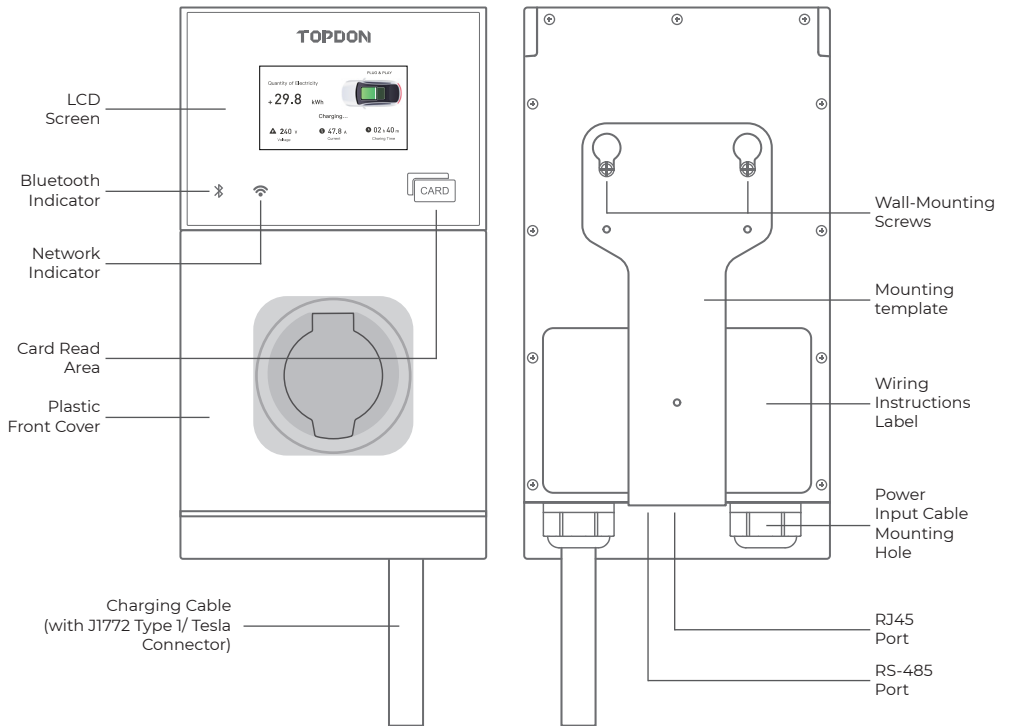
The PulseQ AC Pro is available in six models, each adhering to our standardized naming conventions. See below for more details.



- I** refers to the product family name.
- II** represents the rated power of the product.
- III** "C" stands for cable. The number 7 represents the length of the cable. For example, "C7" indicates that the product includes a 7.5m charging cable.
- IV** "LCD" represents the product includes a LCD screen. "US" and "Tesla" represent the standard that the connector of the product applies to.
US: J1772 connector, Tesla: Tesla connector.
- V** represents the type of the connector. For example, "N14-50" stands for NEMA 14-50P.

3.2 Physical Features





Tips:



The PulseQ AC Pro provides a J1772 connector with charging cable, which only charges EVs with a J1772 charging socket. (vehicle inlet) (See Fig. 3-1)

And a Tesla connector with charging cable, which only charges EVs with a Tesla charging socket. (vehicle inlet) (See Fig. 3-2)

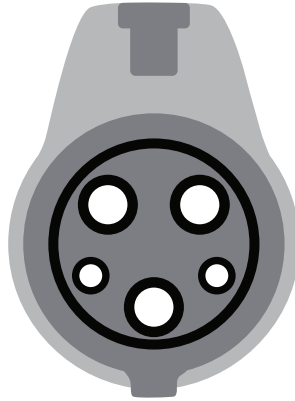


Fig. 3-1 Schematic Diagram of J1772 Interface



Fig. 3-2 Schematic Diagram of Tesla Interface

3.3 Specifications

Model Number	PulseQ AC Pro_9.6K_C7	PulseQ AC Pro_9.6K_C7_LCD	PulseQ AC Pro_11.6K_C7	PulseQ AC Pro_11.6K_C7_LCD
Rated Current	40A		48A	
Rated Power	9.6kW		11.6kW	
Rated Voltage	240Vac, 60Hz			
Charging Level	Level 2			
Charging Control	APP-controlled Plug and play RFID reader mode			
Communication Interface	WiFi (2.4GHz), Ethernet (RJ45 interface) Bluetooth, RS-485			
Safety Protection	Surge protection, over temperature, over / under voltage, over current, LN reverse polarity, leakage, ground protection			
Safety Standards	UL 2594, UL 2231-1&-2, UL1998, UL 1991			
RCD Built-in	CCID20			
Mounting	Wall-mounted / Column-mounted			
Dimensions (H×W×D)	340mm×189mm×90mm			
Enclosure Type	Type 4			
Altitude	≤ 2000m			
Storage Temperature	-40 ~ +80°C			
Operating Temperature	-30 ~ +50°C			

Relative Humidity	≤ 95%RH, no water droplet condensation
Vibration	< 0.5G, no acute vibration and impact
Installation Location	Can be installed indoor or outdoors. Should be installed in an area with good ventilation, and not near flammable or explosive gases.

Radio Parameters

Item	Operating Frequency Range	Maximum Transmitting power	Antenna Gain
WIFI	2400-2483.5MHz	<18dBm	+3dBi
Bluetooth	2400-2483.5MHz	<2dBm	+2dBi

Item	Operating Frequency Range	Transmitting Field Strength	Antenna Gain
RFID	13.56MHz	< 5 dB μ A/m @ 3m	+0dBi

Section 4 - Installation

Unless otherwise specified, PulseQ AC Pro_9.6K_C7 is used as an example.

4.1 Pre-Installation Inspection

When unpacking, please carefully check the following:

- Whether the accessories are missing according to the packing list.
- Whether there is any damage to the product that occurred during transportation.
- Whether the model and specification of the machine's nameplate are consistent with the order requirements.



- ▷ If any damage or missing parts are found, please do not start the installation, and contact your vendor as soon as possible.



- ▷ Please keep the packing box and packing materials for 1 month for future handling.
- ▷ The paper packaging is recyclable.

4.2 Pre-work Preparation

- When transporting or moving the EV charger, pay attention to the following points to ensure product safety:



- ▷ This product is electrical equipment. It should be handled with care, avoiding violent vibration and impact.
- ▷ The charger shall not be transported by dragging the charging connector or the charging cable.

- In order to ensure the long-term stable operation of the product, it is recommended to avoid installing chargers in extreme weather, especially as low or high ambient temperatures may affect the installation effect due to expansions and contractions from temperature changes.
- Space requirement: When the charger is fixed on the wall, the minimum space requirements are shown in Fig. 4-1.
- It is suggested that the charger should be installed in a place with good ventilation, no direct sunlight and sheltered from wind and rain. In order to ensure good ventilation, mount the charger vertically with at least the minimum space around all sides.

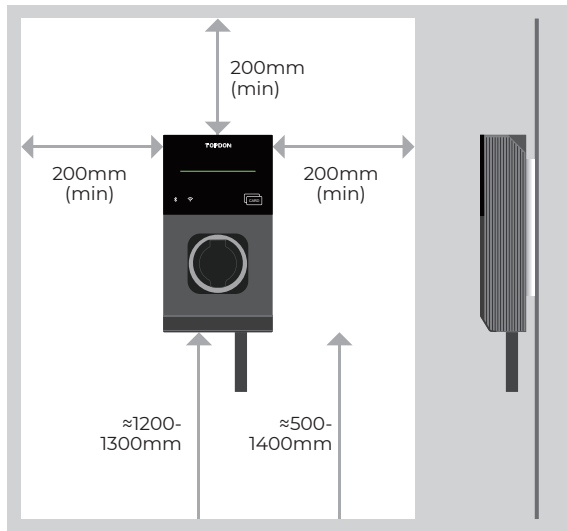

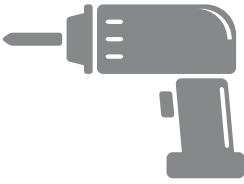


Fig. 4-1 Minimum Space Requirements for Wall Mounting

4.3 Tools for Installation

Please have the following tools prepared before installing

No.	Tool Name	Schematic Picture	Main Uses
1	Multimeter		Checking the electrical connection and measuring the voltage
2	Electric impact drill		Drilling mounting holes in the wall

3

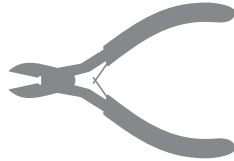
Wrench



Fastening bolts

4

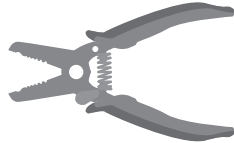
Diagonal pliers



Cutting cables

5

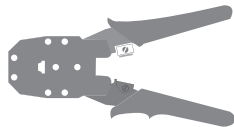
Wire stripper



Peeling cables

6

Crimping pliers



Pressing cable terminal

7

Phillips
screwdriver



Fastening screws

8

Hex screwdriver
(included)



Fastening screws

9 Torque
screwdriver



Fastening screws to a specified torque

10 Level tool



Ensuring a level installation

11 Tape measure



Measuring distance

12 Pencil



Marking mounting holes

13 Hammer



Driving expansion anchors into the mounting holes

4.4 Wall Bracket Installation

Before installation, ensure the homeowner has chosen an installation location that allows the charging cable to reach the car's charging port while still providing slack (See Fig. 4-2).

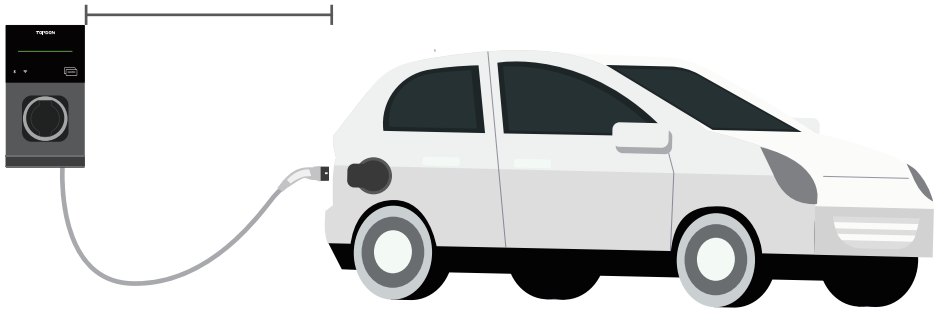


Fig. 4-2



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. Remove all oxide from all conductors and terminals before connecting any wiring.

1. Refer to the Fig. 4-3 to understand the dimensions of the wall bracket. Please make sure the space on the wall is at least 3.43" × 4.21" (87mm × 107mm).

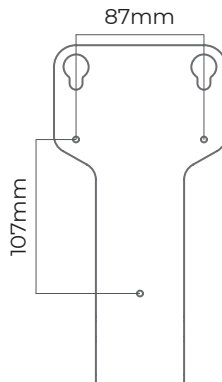


Fig. 4-3

2. Mark the mounting holes on the wall with the mounting template. (See Fig. 4-4)

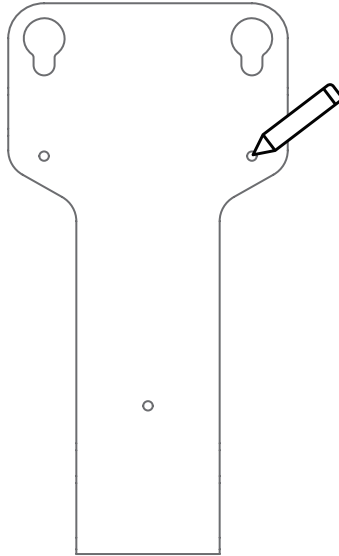


Fig. 4-4

3. Drill the mounting holes into the wall with a depth of at least 1.57" (40 mm). (See Fig. 4-5)

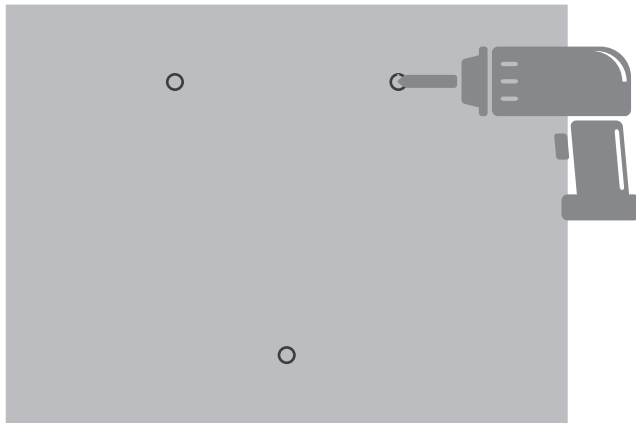


Fig. 4-5

4. Hammer the plastic expansion anchors into the holes. (See Fig. 4-6)

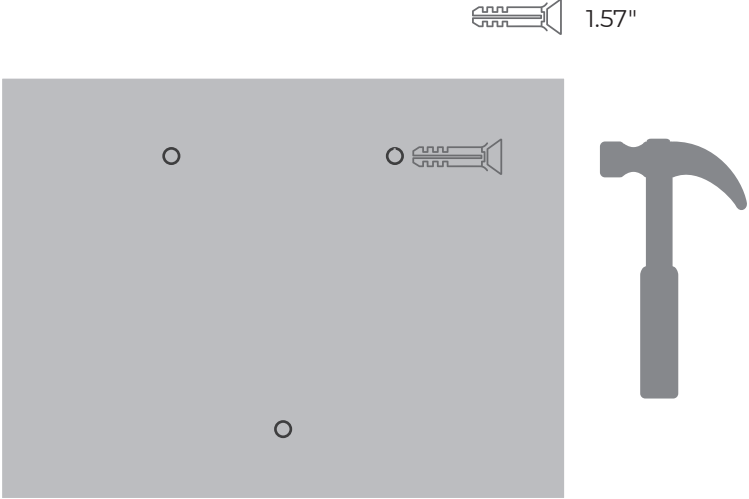


Fig. 4-6

5. Fix the mounting template to the wall with the expansion screws. (See Fig. 4-7)

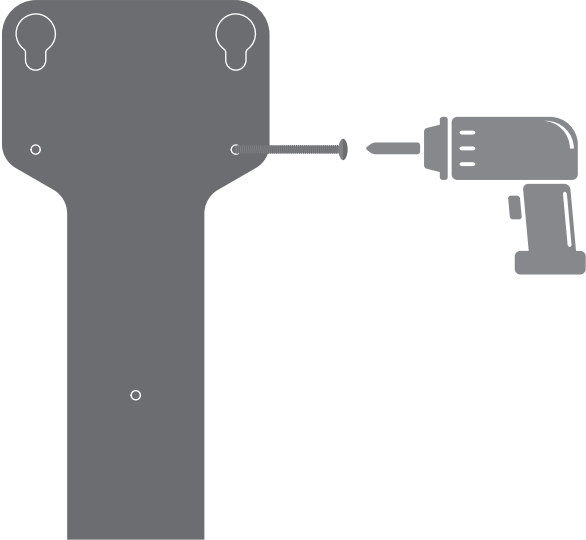


Fig. 4-7

6. Attach the charger to the mounting template. (See Fig. 4-8)



Fig. 4-8

7. Fix the charger to the bracket with the hexagon socket head screw included in the package, using the provided hex screwdriver. (See Fig. 4-9)

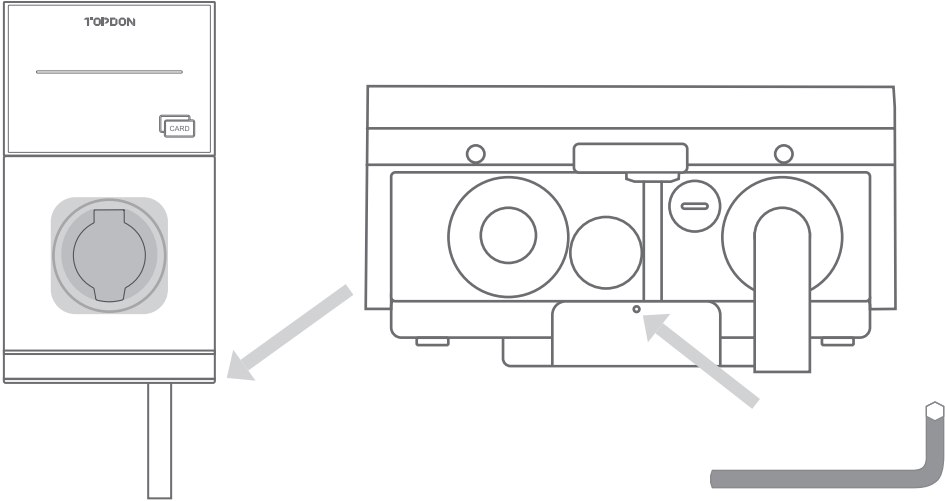


Fig. 4-9

4.5 Hardwire Installation



▷ Hardwire installation needs to be done by professional electricians. Please adhere to all safety precautions.

1. Unscrew the two screws on the bottom of the front cover with a Phillips screwdriver. (See Fig. 4-10)

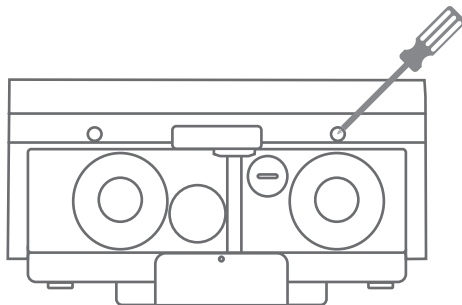


Fig. 4-10

2. Use a spudger to remove the cover. (See Fig. 4-11)

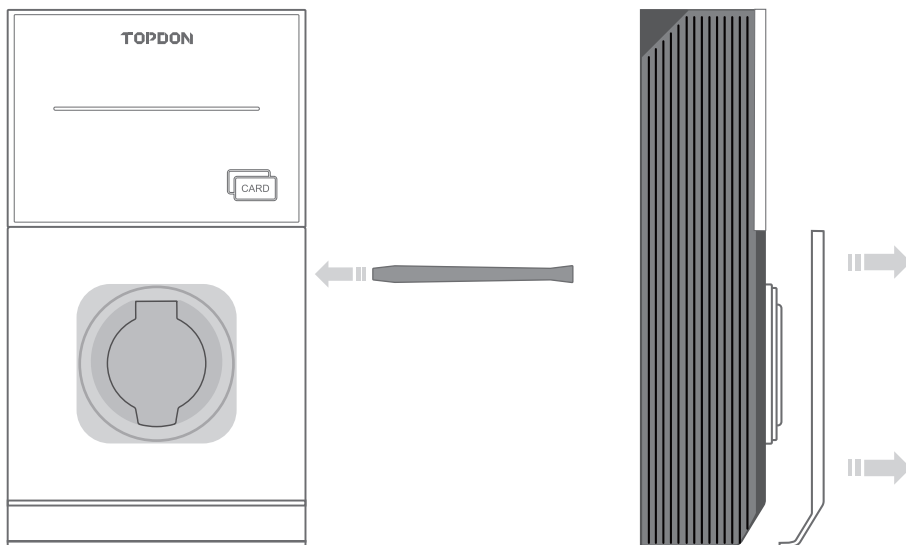


Fig. 4-11

3. Unscrew the eight screws to remove the inner cover. (See Fig. 4-12)

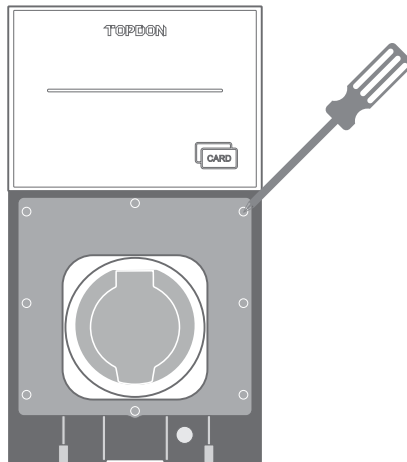


Fig. 4-12

4. Remove the gland at the bottom right of the charger. You can use a large wrench if needed. (See Fig. 4-13)

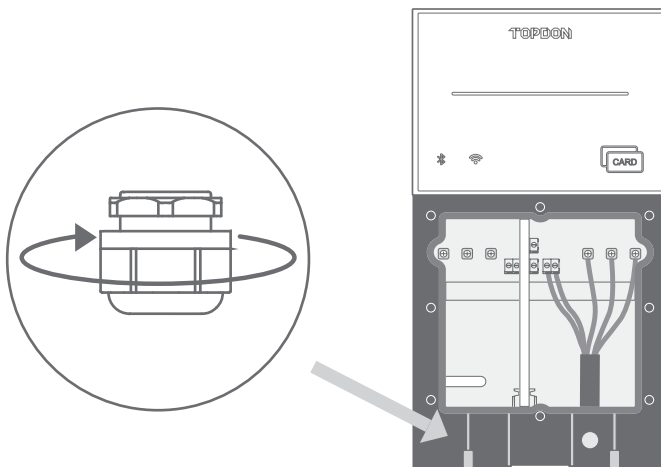


Fig. 4-13

5. Use a wire stripper to remove 10~12 mm of insulation from the prepared power wires, and crimp the exposed wire conductors with the crimping pliers. (See Fig. 4-14)

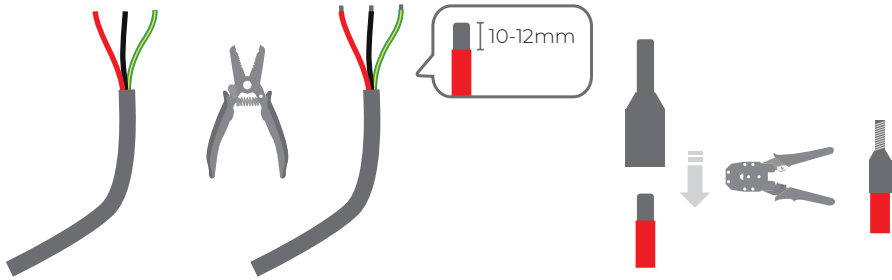


Fig. 4-14



Note: Wire ferrules are needed (not included).

6. Pass the crimped power cable through the hole. (See Fig. 4-15)

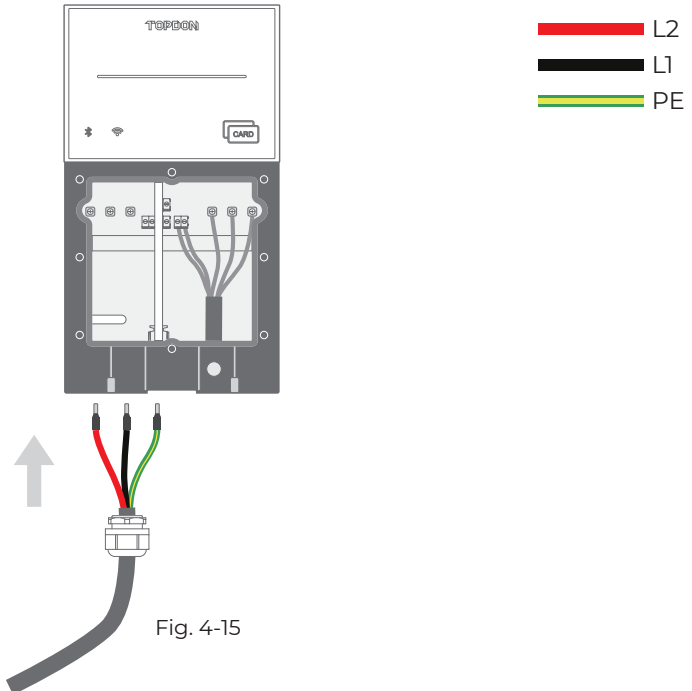


Fig. 4-15

7. Loosen the five terminal screws with a Phillips screwdriver and fully insert each wire connector into its correct terminal block. Use a torque screwdriver to tighten the terminal screws with a torque of 0.5N.m. (See Fig. 4-16)

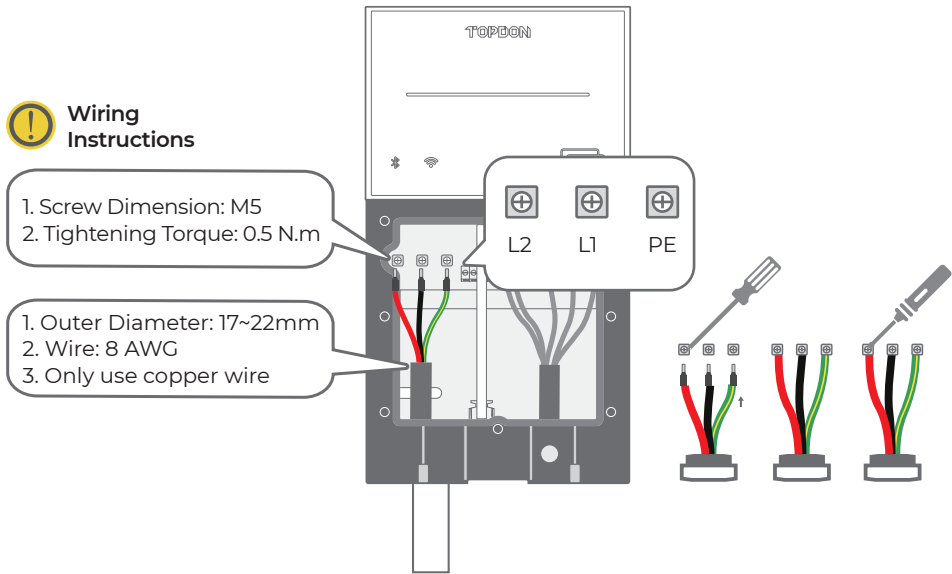


Fig. 4-16

8. Reinstall the gland and the covers.

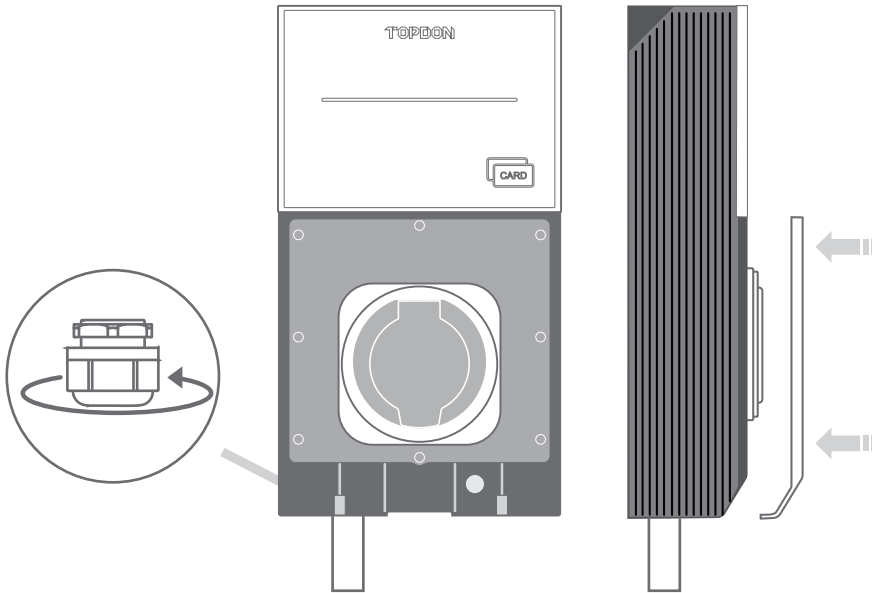


Fig. 4-17

4.6 Network Cable Installation

1. Remove the protective cap of the network port on the bottom center of the charger. (See Fig. 4-18)

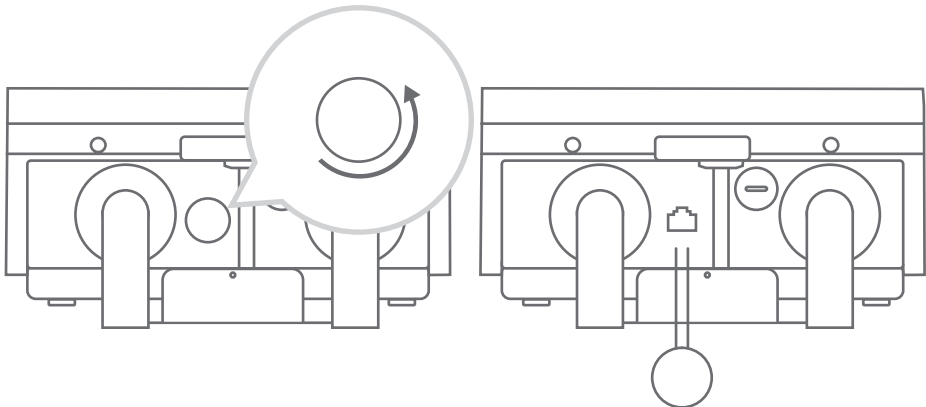


Fig. 4-18

2. Insert the RJ45 plug into the network port. (See Fig. 4-19)

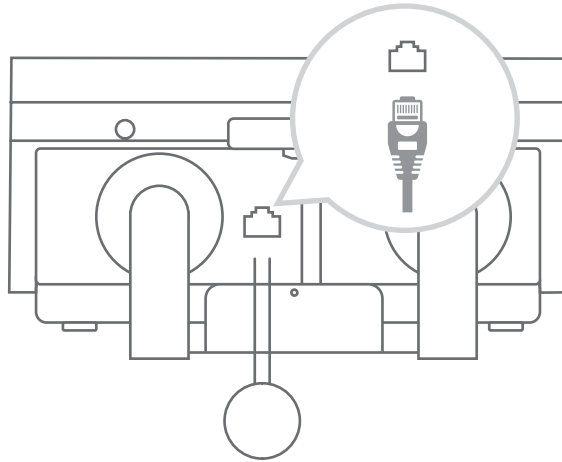


Fig. 4-19



Tips:

Since the cable is long, you can wrap the cable around the cable hook for easy storage. Use the expansion bolt (for cable hook) to mount it on the desired location as needed.

Section 5 - App Configuration

5.1 Bluetooth Connection

Step 1 Download and Install the App

1. Go to the App Store or Google Play, download and install the **PulseQ AC** app to your phone.



2. Enable Wi-Fi, Bluetooth and Location service for the app access on your phone.

Step 2 Register and Log in to your TOPDON Account

1. Open the app. Tap "Create Account" at the bottom of the screen. (See Fig. 5-1)

2. Register an account with your email address and log in. (See Fig. 5-2)

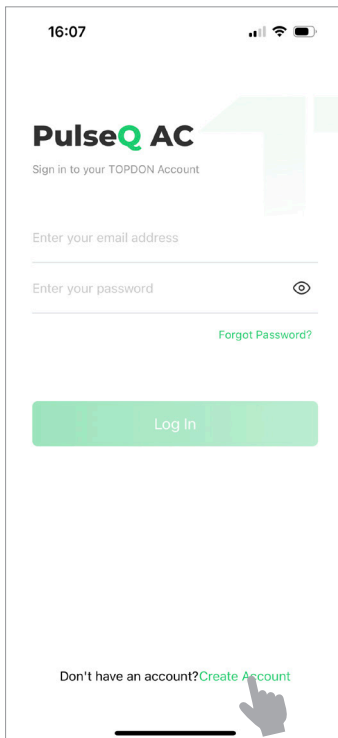


Fig. 5-1

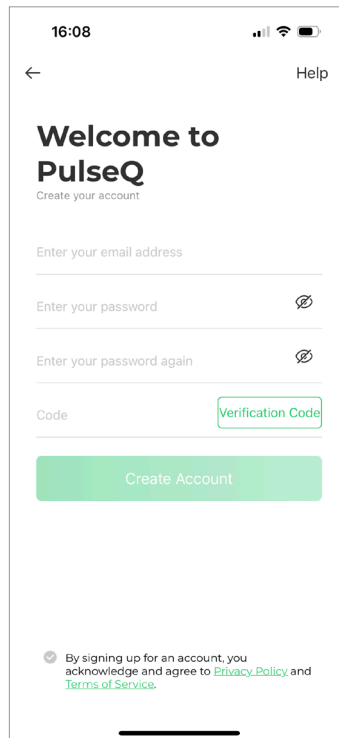
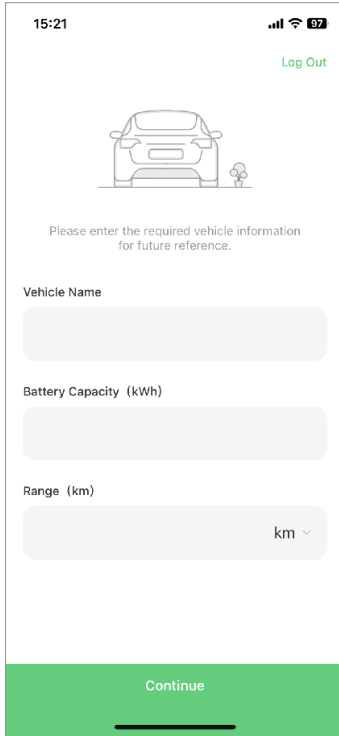



Fig. 5-2

Step 3 Bind the Charger

1. Enter the vehicle information as required (See Fig. 5-3). The information will be used to calculate the cost difference between gas and electricity (See Fig. 5-4). You can check these data when the charging completes.



15:21 Log Out



Please enter the required vehicle information for future reference.

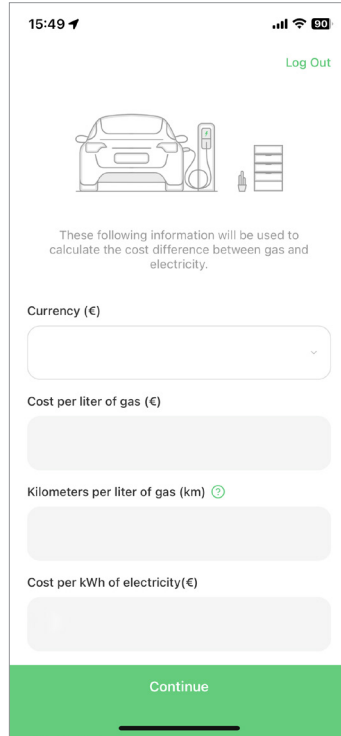
Vehicle Name

Battery Capacity (kWh)


Range (km) km

Continue

Fig. 5-3




15:49 Log Out



These following information will be used to calculate the cost difference between gas and electricity.

Currency (€)

Cost per liter of gas (€)

Kilometers per liter of gas (km) 

Cost per kWh of electricity(€)

Continue

Fig. 5-4

2. Tap "Add Charger" (See Fig. 5-5). Then select the charger you are using. (See Fig. 5-6)

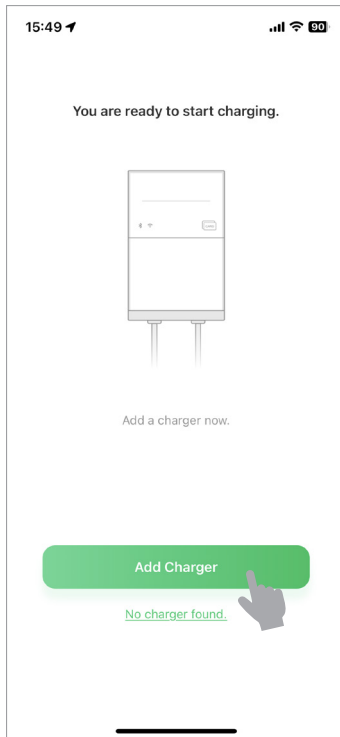


Fig. 5-5



Fig. 5-6

3. Tap "Bind Charger" (See Fig. 5-7). Select the target device when the scanning completes. (See Fig. 5-8)



Tips

Ensure that Bluetooth is enabled on your phone. The Bluetooth name of the device is TOPDON_6100XXXXXX.

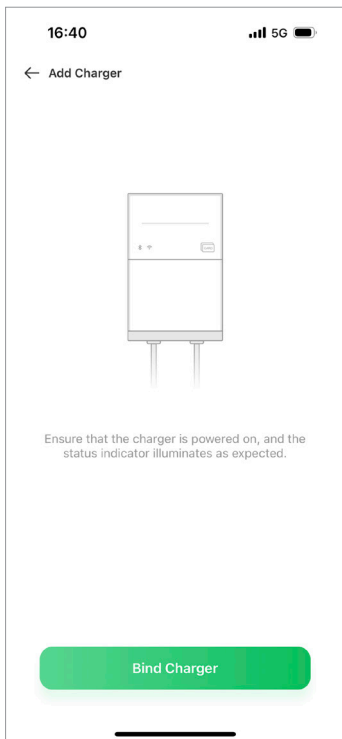


Fig. 5-7

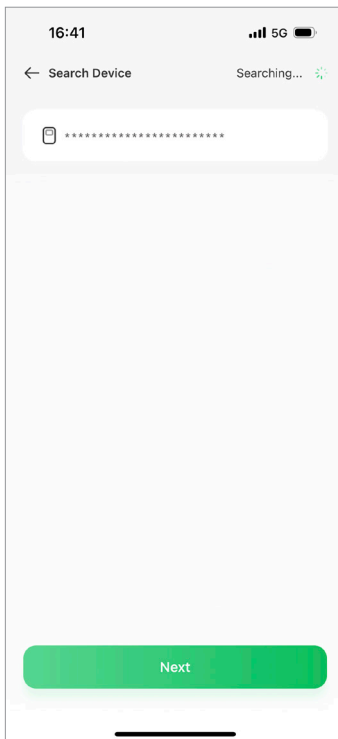


Fig. 5-8

5.2 Network Configuration

5.2.1 Wi-Fi Configuration

1. After the charger is successfully connected via Bluetooth, tap "Network Setting" (See Fig. 5-9). Tap "OK" when the Attention message pops up. (See Fig. 5-10)

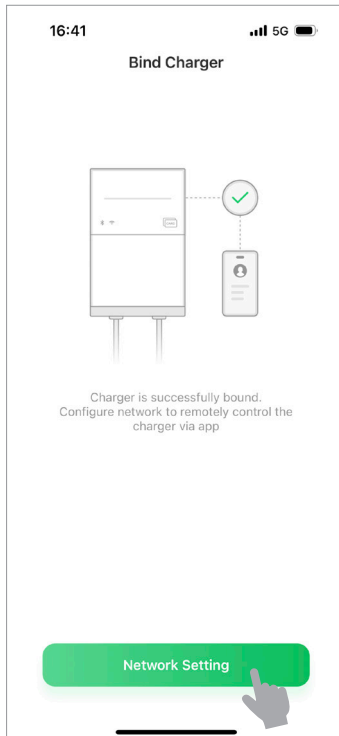


Fig. 5-9

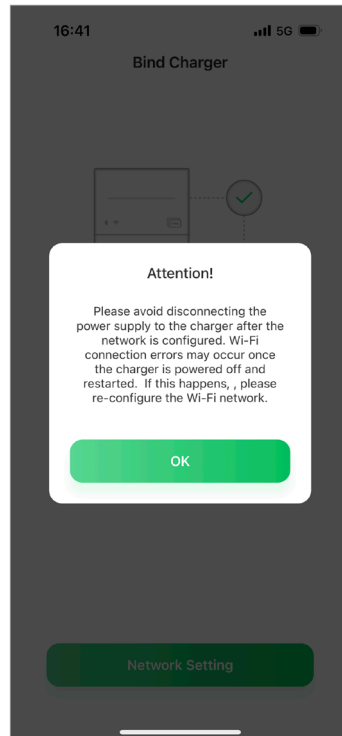



Fig. 5-10

2. Enter the Wi-Fi name and password you want to connect to. Then tap "Connect". (See Fig. 5-11)
3. Connected successfully. You can tap the  icon to rename your charger. (See Fig. 5-12)

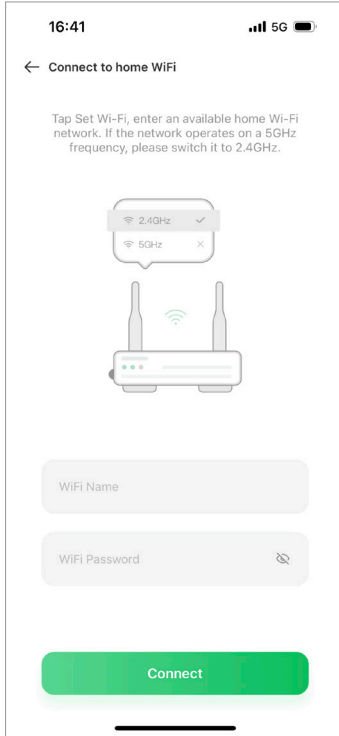


Fig. 5-11

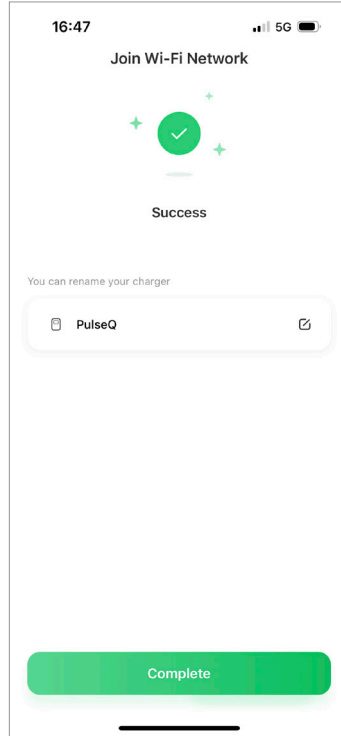


Fig. 5-12

5.2.2 Wired Network Configuration

To set up a wired network for the PulseQ AC Lite or PulseQ AC Pro, connect the network cable to the network port on the bottom center of the charger.

5.3 Charging Configuration

5.3.1 Start Charging

1. After the charging plug is connected to the vehicle, tap "Charge Now" to start charging.
(See Fig. 5-13)

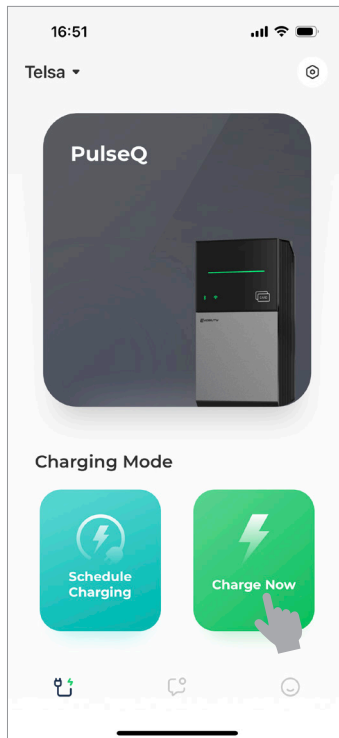





Fig. 5-13

2. You can check the charging status during charging. Tap the  icon to stop charging (See Fig. 5-14). The icon turns to  (See Fig. 5-15). Tap the  icon to view the charging details. (See Fig. 5-16)

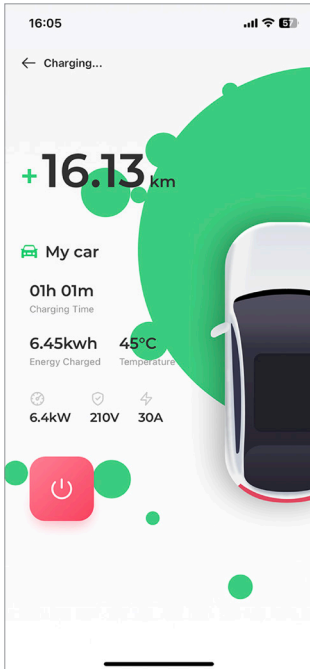


Fig. 5-14

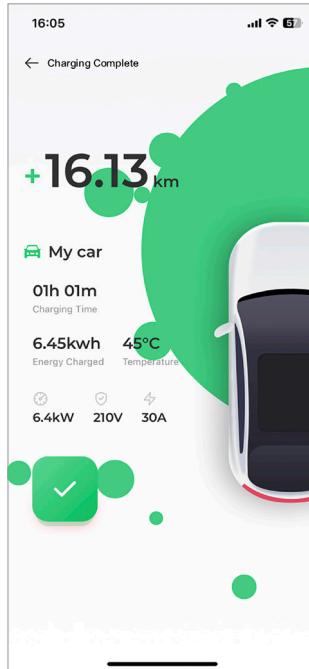


Fig. 5-15

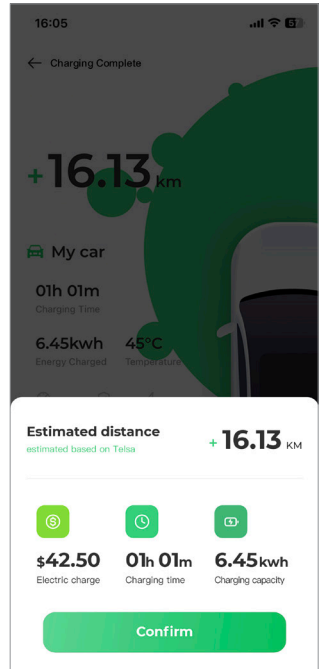


Fig. 5-16

5.3.2 Schedule Charging

Tap "Schedule Charging" (See Fig. 5-17). Enable "Schedule charging". Select "Fixed Schedule" to set a fixed daily charging routine(See Fig. 5-18). Select "Custom Schedule" to set various charging times for each day. (See Fig. 5-19)

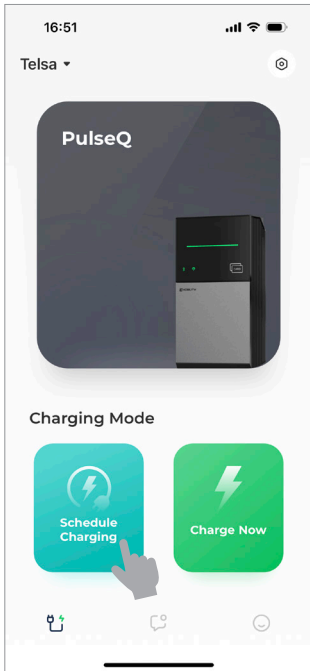


Fig. 5-17

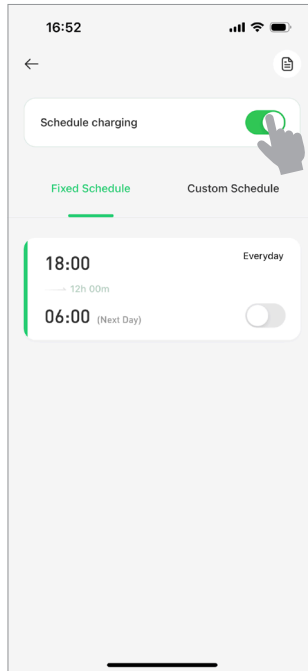


Fig. 5-18

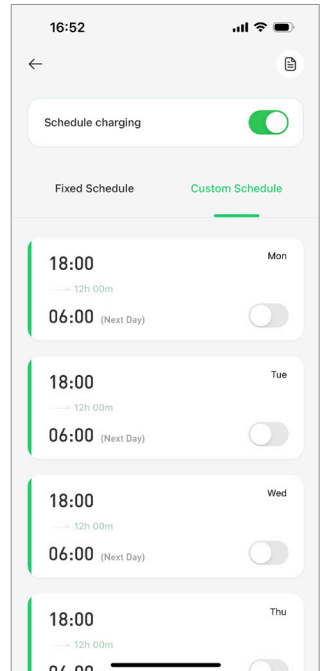





Fig. 5-19

Note:

The screenshots used in this User Manual may slightly differ from the actual app due to ongoing app updates.

5.3.3 Charger Settings

Tap the  icon on the upper-right corner to configure the following settings. (See Fig. 5-20 and Fig. 5-21)

1.  : Tap the icon to edit the charger name.
2. Plug and Play: Tap the  icon to enable Plug and Play. In Plug and Play mode, "Schedule Charging" and "Charge Now" are disabled.
3. Current (A): Tap to set the charging current.
4. Change Network: Tap to perform network configuration.
5. Firmware Version: Tap to check the firmware version of the app.
6. Unbind Charger: Tap to unbind the charger as needed.

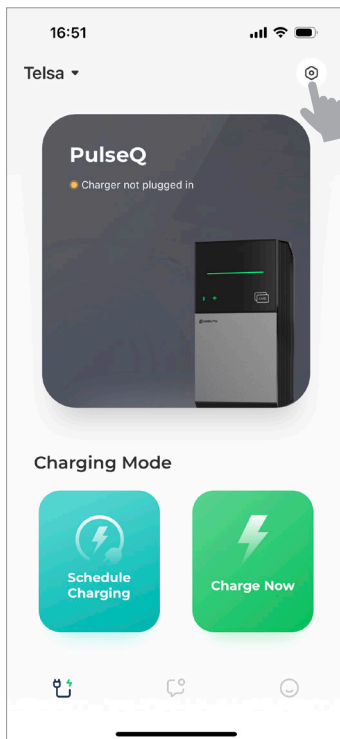


Fig. 5-20

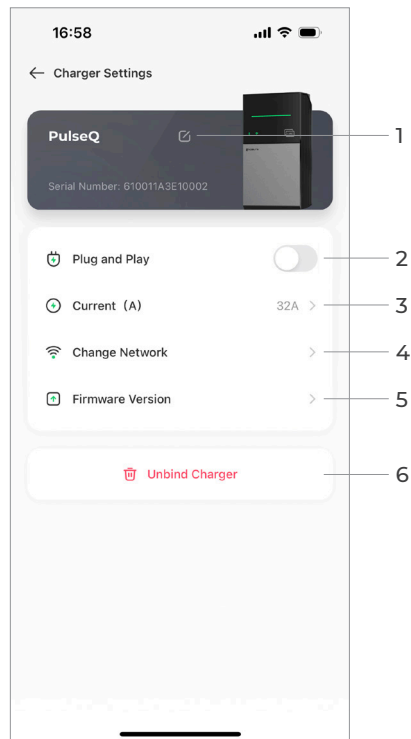


Fig. 5-21

Section 6 - How to Charge an EV

The PulseQ AC Pro EV charger provides three charging modes: "Plug and Play", "RFID Reader" and "Scheduled Charging" modes.

Plug and Play

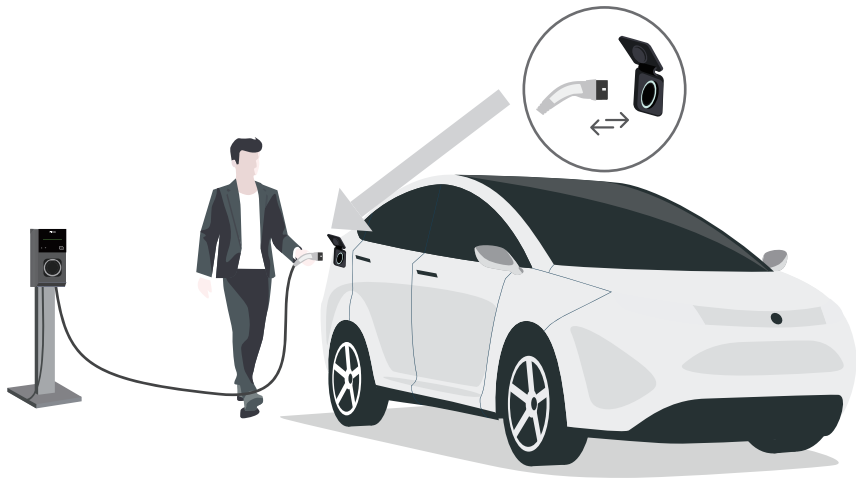
When in the Plug and Play mode, charging starts once the charging is connected.

Step 1

Insert the charging plug into the vehicle inlet. Then charging will start automatically.

Step 2

Unplug the charging plug when charging is finished.



RFID Reader Mode

When in the RFID Reader mode, you need to use the supplied charging card to start and stop the charging process.

Step 1

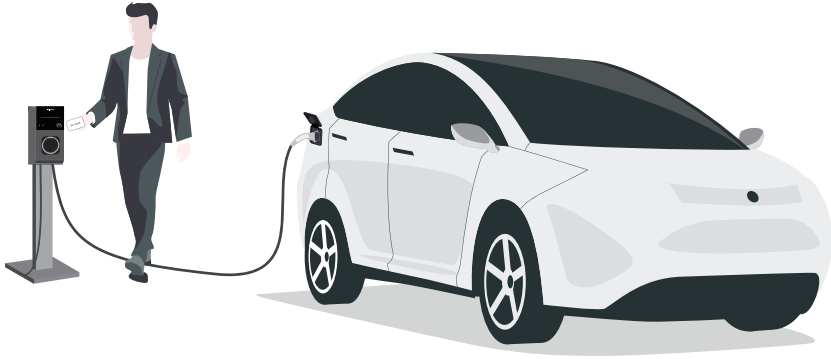
Insert the charging plug into the vehicle inlet.

Step 2

Touch the supplied card on the charger to start charging. You will hear a beep sound when charging starts.

Step 3

Unplug the charging plug when charging is finished.



Note:



1) During the charging process in both modes, the charging plug is locked to prevent unplugging. To stop charging prematurely, use the supplied card or stop charging at the vehicle end.

2) To toggle between the two charging modes, touch the supplied charging card on the charger for **more than 5 seconds** (until a beeping sound is heard).

Schedule Charging

For details, refer to **5.3.2 Schedule Charging**.

Section 7 - LED Indicators & LCD Screen

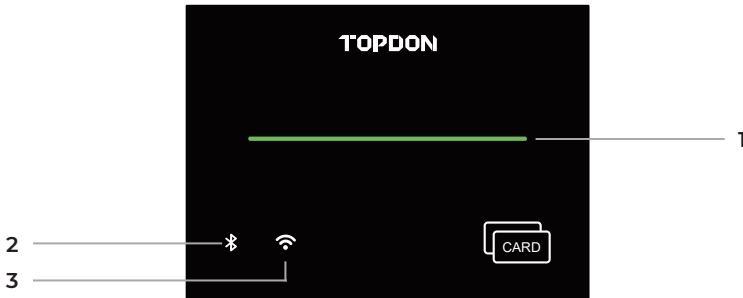


Fig. 7-1

	Name	Indicator Color	Indicator Status	Connotation
1	Charging Status Indicator	Green	ON	Standby
		Blue	ON	Charging plug connected, ready to start charging / Charging complete (plug still connected)
			Pulsing	Charging in progress
		Green & Blue	Alternatively Blinking (1 green blink, 1 blue blink)	Remotely updating
		Green & Red	Alternatively Blinking (green solid for 2 seconds, 1~10 red blinks)	Fault (for more details, please see Section 8 - Fault Handling)
2	Bluetooth Indicator	Green	ON	Bluetooth connected
			OFF	Bluetooth not connected
3	Network Indicator	Green	ON	Network connected
			Blinking	Connecting to the Wi-Fi network
			OFF	Network not connected

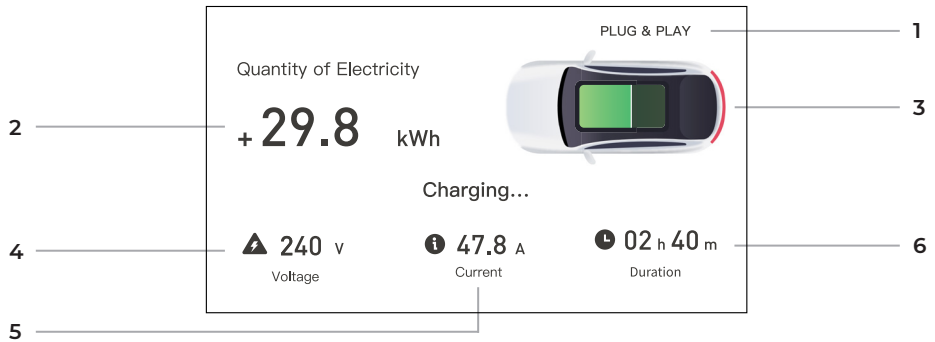





Fig. 7-2

	LCD Screen Display	Connotation
1	PLUG & PLAY	Indicates the Plug & Play charging mode of the vehicle.
2	29.8 kWh	Indicates the amount of the energy charged in the vehicle battery.
3		Indicates the connector is not plugged in.
		Indicates the connector is plugged in and the vehicle is not charging or completes charging.
		Indicates the vehicle is charging.
4	240 V	Indicates the charging voltage of the vehicle.
5	47.8 A	Indicates the charging current of the vehicle.
6	02 h 40 m	Indicates the charging time of the vehicle.

Section 8 - Fault Handling

When a fault occurs, the charging status indicator will blink green (once) and blink red (1~12 times), then repeat.

Indicator Status	Fault Code	Meanings	Handling Methods
1 red blink	E001	LN reverse polarity or ground fault	Check if the input power cable is correctly connected or the ground wire is securely connected.
2 red blinks	E002	Relay sticking	Contact after-sales service (charger components may be damaged and need to be replaced)
3 red blinks	E003	Relay rejection fault	Contact after-sales service (charger components may be damaged and need to be replaced)
4 red blinks	E004	Input overvoltage	Power grid failure, wait until the input voltage is automatically recovered.
5 red blinks	E005	Output overcurrent	Contact after-sales service (This may be caused by faulty charging cable or output short circuit).
6 red blinks	E006	Overtemperature	Check if the temperature of the charger is too high. Stop charging and wait until the temperature is dropped.
7 red blinks	E007	Leakage	Contact after-sales service (charger components may be damaged and need to be replaced)
8 red blinks	E008	RCD fault	Contact after-sales service (charger components may be damaged and need to be replaced)
9 red blinks	E009	CP signal fault	Contact after-sales service (This may be caused by a faulty OBC or CP circuit fault)

10 red blinks	E010	Metering unit fault	Contact after-sales service (charger components may be damaged and need to be replaced)
12 red blinks	E012	Card reader communication error	Contact after-sales service (charger components may be damaged and need to be replaced)
13 red blinks	E013	Input lowvoltage	Power grid failure, wait until the input voltage is automatically recovered.

Section 9 - Warranty

TOPDON's Limited Warranty

TOPDON warrants to its original purchaser that the company's products will be free from defects in material and workmanship for 36 months (for the charger) and 12 months (for the charging cable) from the date of purchase (Warranty Period).

For the defects reported during the Warranty Period, TOPDON will either repair or replace the defective part or product according to its technical support analysis and confirmation. TOPDON shall not be liable for any incidental or consequential damages arising from the device's use, misuse, or mounting.

If there is any conflict between the TOPDON warranty policy and local laws, the local laws shall prevail.

This limited warranty is void under the following conditions:

- Misused, disassembled, altered or repaired by unauthorized stores or technicians.
- Careless handling and/or improper operation."

Notice: All information in this manual is based on the latest information available at the time of publication and no warranty can be made for its accuracy or completeness.

TOPDON reserves the right to make changes at any time without notice.

Section 10 - FCC

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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 in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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