AC003P US Standard

Commercial Use AC Charger

Installation& Instruction Manual

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CONTENTS

1.General Outline

1.1 Purpose

This document is intended to guide construction personnel through the field installation of AC003P AC chargers.

1.2 Application Scope

1.2.1 Applicable equipment type

AC003P AC chargers.

1.2.2 Applicable people

AC003P AC charger installer.

1.3 Warning Symbol Definition

Serial Number	Symbol	Implication
1		Indicates that extreme caution must be exercised or a situation involving hazardous voltage.
2		This is important safety information and must be handled with extreme caution or in situations.
3		Indicates a burn hazard arising from hot areas or areas with high component temperatures.
4		Protective earth connection This product must be connected to a grounded, metal, permanent wiring system, or an equipment-l grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead on the product.
5		AC electricity
6		Indicates that the said action must be performed using clothing and/or personal protective equipment provided by the employer.

Sheet 1 Warning symbol definition

1.4 Safety Precautions

For Both FCC & IC application:

This device complies with Part 15 of the FCC Rules / Industry Canada licence-exempt

RSS standard(s). 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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

This equipment has been tested and found to comply with the limits for a Class A 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.

MPE Requirements

To satisfy FCC / IC RF exposure requirements, a separation distance of 20 cm 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.

Les antennes installées doivent être situées de facon à ce que la population ne puisse y être exposée à une distance de moin de 20 cm. Installer les antennes de facon à ce que le personnel ne puisse approcher à 20 cm ou moins de la position centrale de l' antenne.

La FCC des éltats-unis stipule que cet appareil doit être en tout temps éloigné d'au moins 20 cm des personnes pendant son functionnement.

Before starting operation, please read the operating instructions and precautions carefully to reduce the occurrence of accidents. The "Caution, Caution, Warning, Danger" items in the product and product manuals do not represent all the safety items to be observed, but are intended to supplement the various operational safety precautions.

When performing various operations of our products and equipment, we must comply with the safety codes of the relevant industries and strictly observe the relevant equipment precautions and special safety instructions provided by our company.

Security instructions

The internal working voltage of the charging system is high and the current is large. In order to ensure personal safety, the following regulations should be observed at all times:

1. Only personnel who have received training and sufficient knowledge of charging systems may install charging systems. During installation, always follow the safety precautions at the end of the catalog and local safety regulations.

2. To work inside the charging system, make sure the charging system is not live. The mains input of the charging system must be disconnected.

3. Power distribution cables should be properly routed and protected to avoid accidental contact when operating power supply equipment.

4. It is strictly forbidden to wear a watch on the wrist.

High voltage

Danger	When the power supply system is running, some components have high voltage, direct contact or indirect contact with these components through non-insulating objects will bring fatal danger.

 Danger	Construction operations on high-voltage lines may cause fire or electric shock accidents. AC cables must be erected and routed in accordance with the local regulations and specifications. Only personnel qualified for high-voltage and alternating current operations can perform various high-voltage operations.
 Warning	Improper connection of the equipment-grounding conductor is able to result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product – if it will not fit the outlet,have a proper outlet installed by a qualified electrician.

- The installation of AC power equipment must comply with the safety regulations of the relevant industry, and the personnel who install the AC equipment must be qualified for high voltage, alternating current and other operations.
- It is strictly forbidden to wear watches, bracelets, rings and other conductive objects on the wrist during operation.
- When the cabinet is found to be wet or wet, please turn off the power immediately. When operating in a humid environment, moisture should be strictly prevented from entering the equipment.
- On the switches and buttons that are not allowed to be operated during the installation process, the prohibition of operation signs must be hung up.

Tools

 Warning	When performing various operations of high voltage and AC power, special tools must be used.

Thunderstorm

Danger	It is strictly prohibited to use high voltage and AC power in thunderstorms.

In a thunderstorm, strong electromagnetic fields are generated in the atmosphere. Therefore, in order to avoid lightning damage to equipment, good grounding of equipment should be done in time.

Static electricity

Attention	Static electricity generated by the human body can damage electrostatic sensitive components on the circuit board, such as large-scale integrated circuits (IC), etc.. In contact with the equipment, hand holding the plug board, circuit boards, IC chips, etc., in order to prevent human electrostatic damage to sensitive components, you must wear an anti-static hand ring, and the other end of the anti-static hand ring well grounded.

Short circuit

Danger	It is strictly forbidden to short-circuit the non-grounding pole to ground during operation. A short circuit will cause equipment burnout and personal safety hazards.

- 🕮 The polarity of cables and interface terminals must be strictly checked when conducting live operations.
- 🕮 The power distribution operation space is compact, so please pay attention to select the operation space before any operation.
- 🕮 Operation must use insulated tools.
- 🕮 When operating with electricity, you must pay attention to keeping your hands, wrists, and arms in a tense state, so as to prevent accidents caused by too much movement of the tool or human body when the tool slips.

Others

Sharp corners of objects

Warning	When carrying equipment by hand, protective gloves should be worn to prevent being cut by sharp objects.

Power cable

Attention	Before connecting the cables, verify that the cable labels are correct.

Signal Cable

Attention	The signal cable should be tied separately from the power cable, and the spacing between the ties should be at least 15mm.
Warning	Special tools must be used when carrying out various operations with high voltage and alternating current.

Warning	Do not install or use this product near flammable, explosive, coarse or combustible materials, chemicals or vapors.
Warning	Before installing or cleaning this product, please turn off the power.
Warning	Do not use the device in areas where children are present.
Warning	Please use this product in accordance with the specified operating parameters.
Warning	Do not spray water or other liquids directly on the wall-mounted case. Do not spray water or immerse the charging gun in liquid. Please put the rechargeable gun into the protective holder to avoid accidents.
Warning	If this product is cracked, worn, broken or otherwise damaged, or does not work properly, stop using it.

⚠ Warning	If the flexible power cord or EV cable is worn, broken or otherwise damaged or does not work properly, discontinue use.
⚠ Warning	Do not attempt to disassemble, repair, tamper with or modify this product. This product is not user-repairable equipment. For repair or modification, please contact your dealer.
⚠ Warning	Please use caution when transporting this product. To prevent damage to the connector or its components, do not expose the connector to force or impact, do not pull, twist, tangle, drag, or step on.
⚠ Warning	Do not touch the end of this product with your fingers or sharp metal objects (such as wires, tools or needles).
⚠ Warning	Do not insert fingers or foreign objects into any part of this product.
⚠ Warning	Do not fold or press any part of the product or damage the product with sharp objects. Do not fold or press any part of this product, or damage this product with sharp objects.
⚠ Warning	Special tools must be used when performing various operations under high-voltage, AC power conditions.

2. Preparation before installation

2.1 Installation site

The environmental conditions listed in the table below need to be considered when selecting charging equipment.

Environmental conditions	Recommended range
Ambient temperature	-30℃～ + 55℃
Altitude	＜2000m
Humidity	5%～95%RH, no condensation inside the product;
Dustiness	≤1mg/m^3

Corrosive substances	No pollutants, such as salt, acid, smoke, etc.
Vibration	≤1.5mm/s
Insects,pests, vermin beasts, termites	None
Mildew	None

Sheet 2 Installation environment confirmation

·Do not install in areas prone to water immersion

·Please avoid the place where cars collide to install

2.2 General construction tools

Serial Number	Type	Name	Application	Picture
1	Wire preparation tools	Electrician's knife	Stripping of insulation sheath	
2	Installation tools	Wire stripping pliers	Stripping of the insulation layer	
3	Installation tools	Crimping pliers	Terminal crimping	
4	Installation tools	Impact Drill	Component card installation	
5	Installation tools	Electric wind-axe machine	Slotting	
6	Installation tools	Cutting machine	Tube cutting	

7	Installation tools	Hot air gun	Heat shrinkage of insulating material	
8	Installation Tools	Hot melt machine	Welding PE water pipe	
9	Installation tools	Allen wrench (full set)	Installation and removal of screws	
10	Installation Tools	Open-end wrenches (full set	Installation and removal of nuts	
11	Installation tools	Angle grinder	Grinding of materials	
12	Installation Tools	Phillips screwdriver (full	Removal and installation of	
13	Measuring Instruments	Laser level	Level measurement	
14	Measuring Instruments	Leveling tape	Level measurement	
15	Measuring Instruments	Multimeter	Measurement of voltage, current, etc.	
16	Measuring instruments	Megohmmeter	Measurement of insulation resistance	
17	Auxiliary apparatus	Insulation floor mat	Placement of disassembled parts	
18	Lifting tools	Manual crane	Lifting of equipment	

Sheet 3 General construction tools

Note: The above tools need to be selected according to the actual situation on site.

2.3 Construction materials

2.3.1 Cable wires

Refer to the following table, according to the different wire diameter, choose the corresponding terminal block.

Wire diameter	Terminal model
6AWG(13.3mm^2)	SC16-8
8AWG(8.37mm^2)	E10-12
10AWG(5.26mm^2)	VE6012
16AWG(1.31mm^2)	VE1508

Sheet 4 Cable diameter cross reference terminal table

Size of wire that shall be used for connection of the unit		Tightening torque, N.m(pound-inches)							
		Slotted head No. 10 and larger				Hexagonal head -external drive socket wrench			
		Slot width .1.2 mm (0.047 inch)or less and slot length 6.4 mm(1/4 inch)or less		Slot width - over 1.2 mm (0.047 inch) or slot length-over 6.4 mm(1/4 inch)		Split-bolt connectors		Other connections	
AWG	mm^2								
16-10	1.31-5.26	2.3	(20)	4.0	(35)	9.0	(80)	8.5	(75)
8	8.4	2.8	(20)	4.5	(40)	9.0	(80)	8.5	(75)
6	13.3	4.0	(35)	5.1	(45)	18.6	(165)	12.4	(110)

Sheet 5 Tightening torque for pressure wire connectors having screws

Note: The torque value of the equipment circuit breaker is 2Nm（17.5lbf-in）.

2.3.2 Network cable

For Ethernet communication, it is recommended to use Super Category 6 shielded twisted pair cable (cat6a) and RJ45 crystal head. The length of network cable should not exceed 75m, more than 75m, the customer needs to customize the construction plan according to the site conditions.

2.3.3 Other material

Auxiliary materials such as heat-shrinkable tubes and insulating tapes required for making cables.

2.4 Installer requirements

(1) Entering the construction site should comply with the construction site safety management regulations.

(2) Entering the construction site, you must correctly wear a helmet (tie the jaw belt, helmet intact), do not wear wide clothing, slippers and other unsafe attire, alcohol is strictly prohibited to work, smoking in the construction site is strictly prohibited.

(3) If the site is dusty or spray paint work, you must wear a protective mask.

(4) Try to stay away from various machinery and equipment, electrical lines to prevent mechanical and electrical injuries.

(5) the use of mobile power tools must master its use of skills and precautions, to try to wear insulated shoes, with insulated gloves, metal outer

(6) The site temporary electricity, the electrical box to keep intact, damage to the electrical components must be replaced in a timely manner.

(7) Do not plug the wire directly into the socket.

(8) Try to avoid working with electricity.

(9) When entering the pit, roof and other sides or various holes, you should concentrate on preventing falling from high places.

(10) Pay attention to the condition of the ground environment such as iron nails and steel bars to prevent other injuries such as sticking, touching, hanging and falling.

(11) Site construction protection facilities, safety signs, warning signs, etc. can not be removed without authorization.

(12) Construction equipment to strengthen the maintenance of the site, to keep intact.

2.5 Construction drawing confirmation

When the installers arrive at the site, they first check the drawings of the installation location of the equipment and check to make sure that the cables of each equipment meet the requirements.

2.6 Equipment spacing requirements

To ensure safe and reliable operation of equipment, ventilation and maintenance requirements, sufficient installation space and installation height should be reserved.

2.6.1 Installation space requirements

Requirements 550 x 720 mm, space calculation as follows .

• The front side of the reserved distance ≥ 400mm (to ensure the normal opening and closing of the front door and the smooth operation)

• The lower side of the reserved distance ≥ 200mm (to ensure that the incoming and outgoing lines are smooth)

• The right side of the reserved distance ≥ 500mm (to ensure that the gun seat inserted into the gun smoothly)

2.6.2 Installation height requirements

Recommended to install according to the height marked in the figure below, the product height from the ground 800mm. example Figure 1

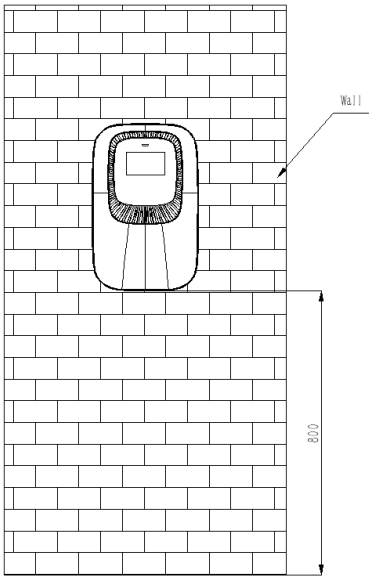


Figure 1 Installation height requirement

2.6.3 Car parking distance requirement

When the charging post is installed in the middle of a parking space or back-to-back parking spaces, it is recommended to leave a space of 800mm between the car wheel block and the charging post to facilitate the use of the charging post, as illustrated in Figure 2:：

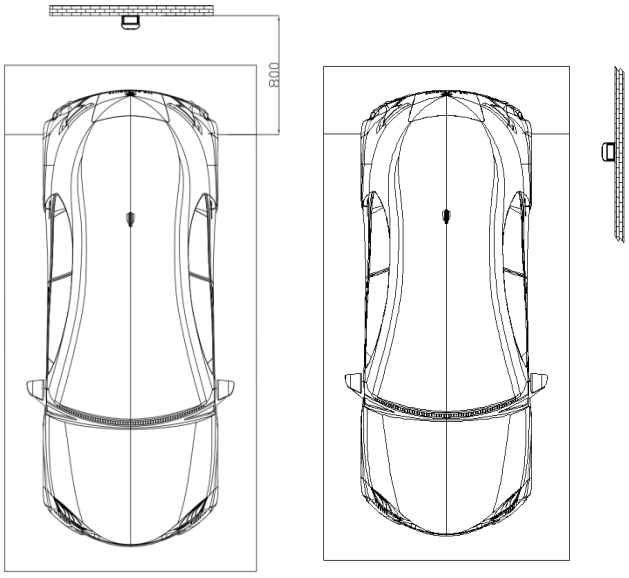


Figure 2 Installation distance requirement

2.7 Power cable recommendations

AC003P AC chargers are recommended to use cables with 400V or higher voltage rating, and the cables should have at least 90°C temperature resistance level. The installer should confirm whether shielding is required according to local laws or terms and conditions, and if shielding is available, both ends of the shield should be connected to the PE wire.

The power distribution input wire diameter of the charger is recommended to be no less than the following recommended values. If this wire diameter is not in accordance with laws and regulations, please refer to local laws and regulations requirements.

Phase sequence/color	L1 Brown	L2 Black	PE yellow-green	Noted
AC003PT17 two-phase 32A	8AWG（8.37mm² ）	8AWG（8.37mm² ）	10AWG（5.26mm² ）	US
AC003PT19 two-phase 40A	8AWG（8.37mm² ）	8AWG（8.37mm² ）	10AWG（5.26mm² ）	US
AC003PT111 two-phase 48A	8AWG（8.37mm² ）	8AWG（8.37mm² ）	10AWG（5.26mm² ）	US
AC003PT119 two-phase 80A	6AWG(13.3mm² ）	6AWG(13.3mm² ）	6AWG(13.3mm² ）	US

Sheet 6 Wire diameter selection table

Note: (1) Equipment field-wiring terminals shall be marked: "Use Copper Conductors Only" when the terminal is intended only for connections to copper wire.

(2)Temperature rating for the field-installed conductors for which the unit has been evaluated.

2.8 Current & distribution capacity requirements

Please confirm the information requirements of the distribution network in accordance with the following table and select the circuit breaker according to the recommended selection requirements.

Note: When installing the charger, the charger power supply line should be equipped with an independent circuit breaker with leakage protection or leakage protection device, and CCID20 leakage protection device is recommended.

Charger Specifications	Distribution Grid Voltage	Wiring Type	Grid capacity	Rated current	Circuit Breaker Selection	Noted
AC003PT17 two-phase 32A	240VAC,50/60Hz	L1+L2+PE	≥8.75kVA	40A	Ue=400V,≥40A,Thermomagnetic，Icu≥Ics≥40kA,2P	US
AC003PT19 two-phase 40A	240VAC,50/60Hz	L1+L2+PE	≥11.25kVA	50A	Ue=400V,≥50A,Thermomagnetic，Icu≥Ics≥40kA,2P	US
AC003PT111 two-phase 48A	240VAC,50/60Hz	L1+L2+PE	≥13.75kVA	60A	Ue=400V,≥60A,Thermomagnetic，Icu≥Ics≥40kA,2P	US
AC003PT119 two-phase 80A	240VAC,50/60Hz	L1+L2+PE	≥23.75kVA	100A	Ue=400V,≥100A,Thermomagnetic，Icu≥Ics≥40kA,2P	US

Sheet 7 Distribution network requirements and circuit breaker selection

2.9 Requirements for fixed foundation

When the backplane is used for wall mounting, it should be installed on solid brick, concrete or its strength equivalent with a certain flatness of the installation surface. The load-bearing capacity should be more than 100 kg/m^2. The product should not be installed on sandy walls, plasterboard, marble, glass panels or steel plates.

2.10 Grounding/insulation resistance requirements

(1) Check the civil grounding resistance test report to ensure that the resistance value of the grounding network made on site needs to be ≤ 4Ω.

(2) Check the civil insulation resistance test report to ensure that the cable insulation resistance resistance value ≥ 10MΩ.

⚠Noted The above requirements are the minimum requirements for this equipment, and the specific standards are subject to local laws and regulations.

3. Installation Steps

3.1 Unpacking and unpacking inspection

3.1.1 Equipment packing list

Name	Packaging	Configuration	Accompanying document	Accessory List
Equipment body	Cardboard box	Standard	- Certificate of Conformity - Factory inspection report - Installation manual (electronic version)	RFID card Expansion plug *3 Expansion screw ST4.8X40mm *4 Screw M4×12mm *4 (currently standard, for column installation)

Sheet 8 Equipment packing list

⚠ **Attention: Moving, Transporting, and Storage Instructions**

If improper moving or storage of the device is able to result in damage to the product that could result in a risk of fire or electric shock during subsequent use, the instructions shall describe the proper moving and storage procedure, and shall be preceded by the heading "MOVING AND STORAGEINSTRUCTIONS" or the equivalent.

3.1.2 Unpacking and inspection

(1) Check the packing list number and equipment quantity.

(2) Check the equipment nameplate information.

(3) Check the completeness of the random documents.

(4) Check whether the spare parts and accessories are complete.

(5) Check the factory inspection report and certificate of conformity.

(6) Check whether the equipment appearance is good, whether there is deformation, bump, stain, etc.

3.1.3 Unpacking notes

(1) The installer shall unpack the equipment in the presence of the owner and fill in the unpacking record in detail.

(2) After unpacking and checking, the owner's representative should be asked to confirm the signature on the equipment unpacking record sheet.

(3) Equipment unpacking and acceptance process found problems, in addition to making records, waiting for the owner to negotiate with the supplier.

3.1.4 Product parts introduction

The parts of the product facade are shown in Figure 3, and the internal parts are shown in Figure 4.

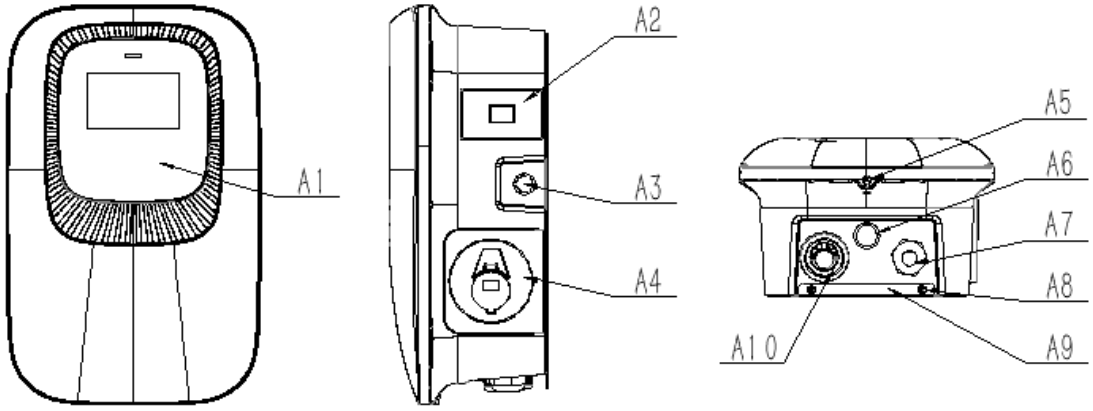
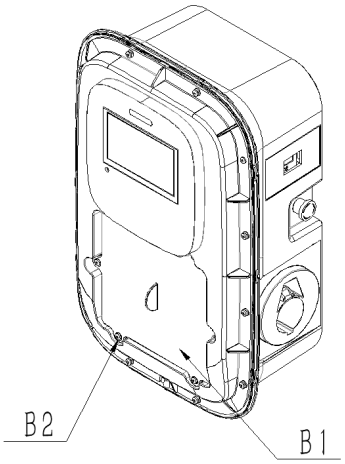


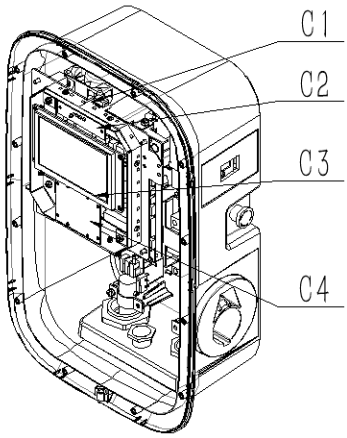
Figure 3 Product component diagram

A1	Screen Tempered Glass	A2	Tempered Glass For Electricity Meter	A3	Emergency Stop Switch	A4	Socket

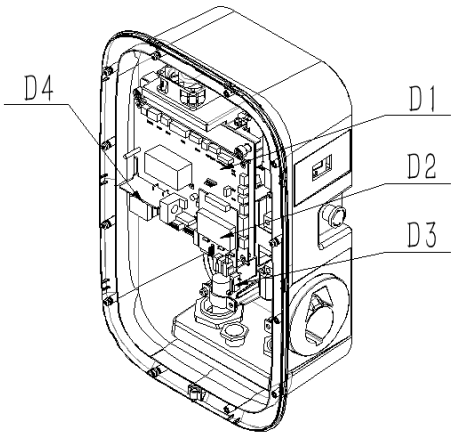
A5	M4 countersunk Head Security Screws	A6	Network Cable Interface	A7	Cable Gland	A8	M4 Anti-theft Combination Screw
A9	Wall Mount Bracket	A10	Bellows Connector				



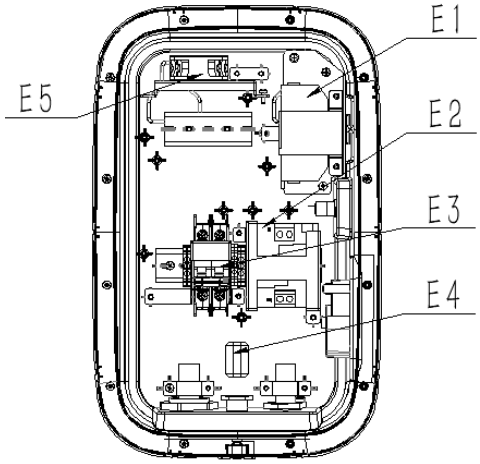
B1	Maintenance Cover	B2	M4 Anti-theft Combination Screws				



C1	Ambient Light	C2	Indicator Light	C3	Screen	C4	Card Reader



D1	Main Board	D2	OCPP	D3	Access Control Switch	D4	Lightning Protection Board



E1	Meters	E2	AC Contactor	E3	Breaker	E4	Magnetic Rings
E5	Fan						

Figure 4 Internal components

3.2 Equipment installation

3.2.1 Installation size

Equipment installation size: 300 mm × 470 mm × 186 mm, the external dimensions are shown in Figure 5.

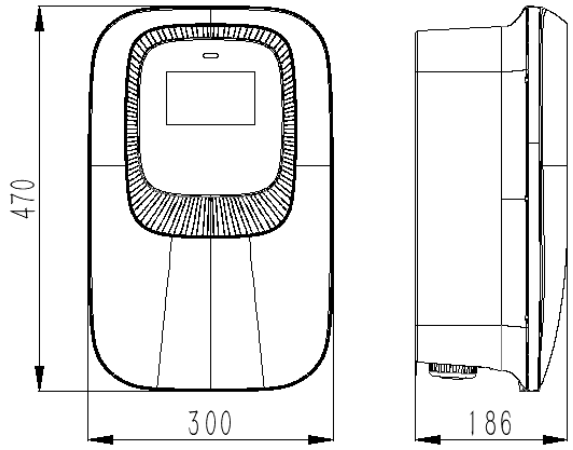


Figure 5 Schematic diagram of product size

3.2.2 Unpacking

Open the outer box and remove the screw accessory kit, the charging post body, the opening template and the wall mounting bracket.

Attention:

The device is not to be lifted or carried by either the flexible cord or the EV cable.

If improper moving or storage of the device is able to result in damage to the product that could result in a risk of fire or electric shock during subsequent use.

3.2.3 Installation

Attention: It is necessary to strictly follow the installation steps to install in order to ensure the protection level of final use.

(1) Use ruler and marker to mark the wall according to the size below.

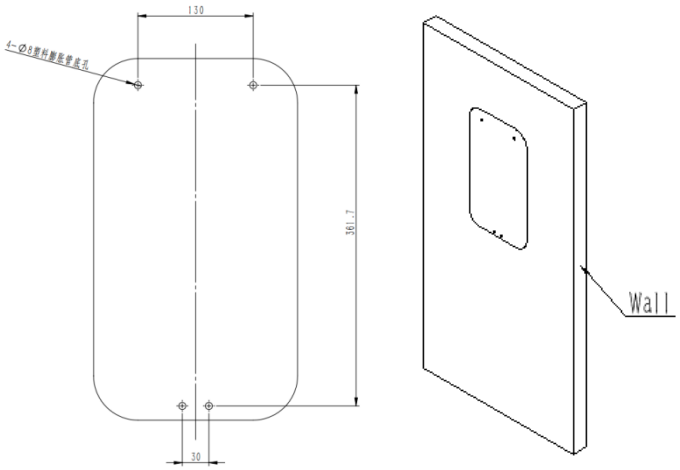


Figure 6 Schematic diagram of leveling and opening template

(2) Mark the four mounting holes below with a marker, and then drill four holes with a φ8 drill bit (hole depth 5 cm).

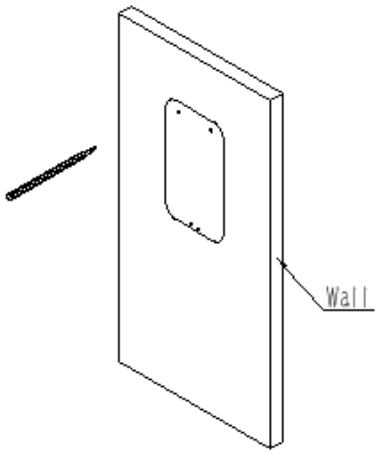


Figure 7 Diagram of mounting hole positioning

(3) Insert four 8mm diameter expansion plugs into the mounting holes below.

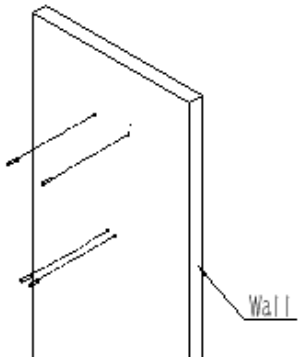


Figure 8 Diagram of placing expansion plug

(4) 7Insert two ST4.8×40mm screws into the mounting holes below, making sure the screws stick out of the wall 11mm from the head.

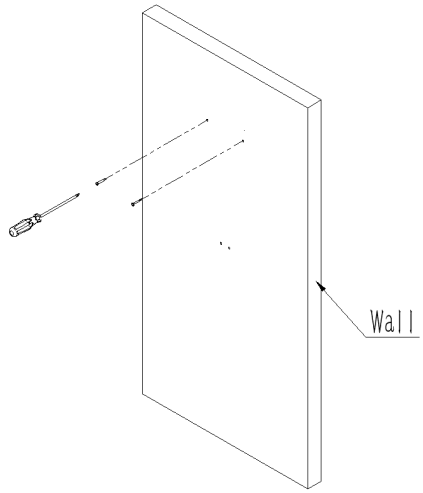


Figure 9 Screw mounting schematic

(5) Secure the wall bracket to the charging post using M4 anti-theft screws.

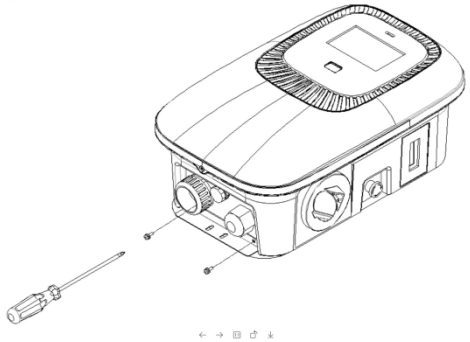


Figure 10 Wall bracket mounting schematic

(6) Use two ST4.8 x 40mm screws through the two holes on the wall bracket to fix with the remaining 2 expansion plugs on the wall.

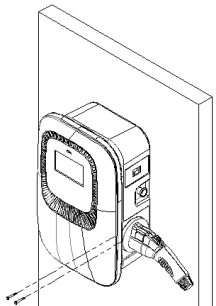


Figure 11 Charger installation schematic

3.2.4 Connect Ethernet cable

The charging post supports Ethernet connection, when using Ethernet cable connection, insert the Ethernet RJ45 plug into the RJ45 connector (H) at the bottom of the charging post.

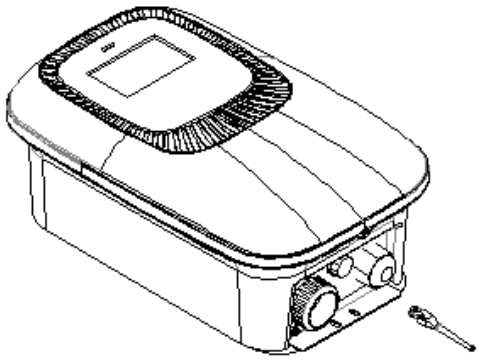


Figure 12 Schematic diagram of connecting the Ethernet cable

3.2.5 Wiring

Attention！The AC input cable is routed from the customer's distribution switch and is only connected to the output terminal of the customer's switch when it is finally ready to be energized.

Step 1: Remove the decorative cover using the cocking tab.

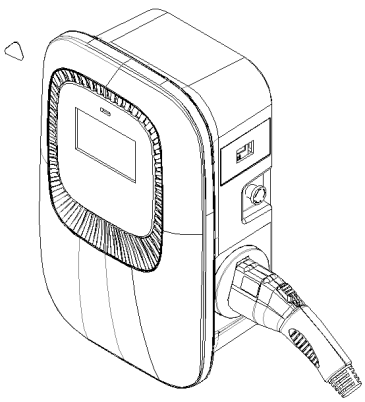


Figure 13 Remove the junction box cover

Step 2: Remove the maintenance cover (screw*6) using the inner plummer with hole screwdriver.

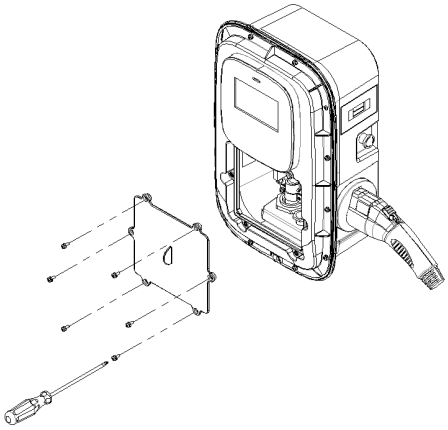


Figure 14 Remove maintenance cover

Step 3: Customer provides1 1/4"bellows and fixes them to the bellows joint. The length of the bellows shall be determined according to the site conditions. It is recommended to use nylon material for bellows, and the flame retardant grade UL94-V0.

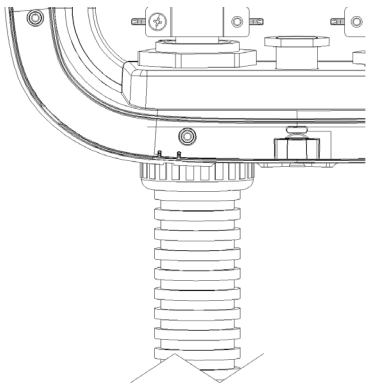
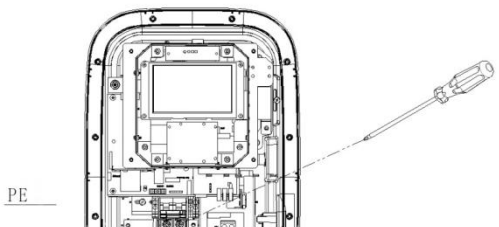


Figure 15 Bellows fixing diagram

Step 4: Thread the lead through the bellows (if any) and the connector. Then connect it to the corresponding wiring pair according to the L1/L2/PE identifier, and tighten it.



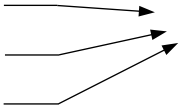


Figure 16 Wiring schematic

Step 5：**ATTENTION！** Check that the wiring is secure, the cable is not broken, damaged or scratched, and no metal debris remains in the junction box.

Step 6: Fix the maintenance cover on the pile and tighten it with 6 screws.

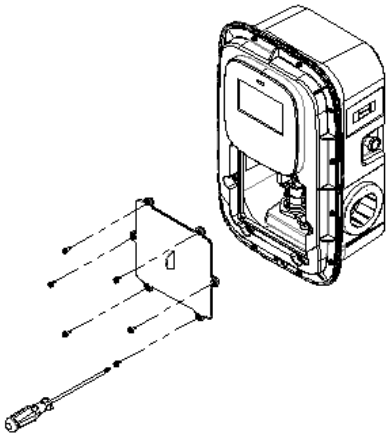


Figure 17 Installation of tightened junction box

Note: If the bellows are not used, the cable must be locked with a gran head to meet the waterproof requirements. The gran head is M40 and its thread length does not exceed 15mm. The cable diameter ranges from 19 mm to 21mm.

Warning:

Must be performed in accordance with the specifications and the correct

operating procedures, incorrect implementation may lead to personal injury or death, etc.

4. Post-Installation Inspection

4.1 Installation and wiring inspection

4.1.1 Equipment and equipment fixation inspection

(1) The appearance of the charger is neat and tidy, no bumping damage, and the position is in line with the hanging frame and fixed firmly without loosening.

(2) The orientation of the equipment meets the installation standards.

(3) There is no leakage of equipment installation accessories.

(4) Level meter measurement equipment book evaluation in line with the requirements.

4.1.2 Cable laying and connection inspection

(1) Check whether the cable insulation sheath is scratched and damaged.

(2) Check whether the power cable terminal is compliant and wired securely.

(3) Check that the communication cable terminals are correct and free from looseness.

(4) Check whether there is a hanging cable label.

(5) Check whether the bending radius of the cable meets the requirements.

(6) Check whether the electrical grounding is reliable**.**

4.2 Inspection before power on

After ensuring the above operations such as stable charging post installation and reliable wire wiring, the charging post can be powered on.

4.3 Power on

Turn on the main switch of the charging post external AC power. The indicator light is on.

Indicator status		Definition
Breathing light	Green	Standby but not connected online
	Blue	Be charging but not connected online
	Red	Fault state but not connected online

Light is always on	Green	Standby after networking
	Blue	Be charging after networking
	Red	Fault state after networking

Sheet 9 Comparison table of charger status indicators

5.Charging/Stop Charging

5.1 Plug gun direct charging (need to set up)

Firstly, after taking the gun out of the gun holder and connecting the charging gun to the car, you can observe that the green light is always on, which is the standby mode. Swipe the card and click on the screen for fast charging, and it is now in charging mode; at this time, the light will turn into a blue breathing state; when the charging is over, the light will turn into a blue steady state, draw the gun after charging and put the gun back into the charger . (If the light turns red, it means there is a fault that needs to be checked)

5.2 Default Setting

1.Admin Login

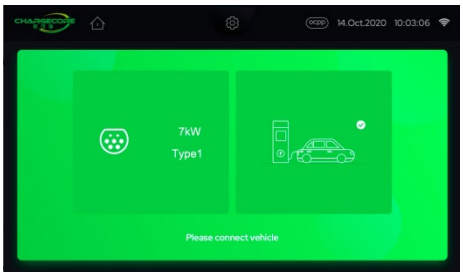
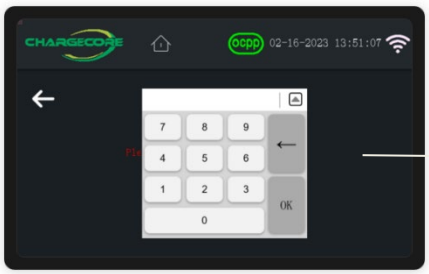


Figure 18 Home page "Settings"



Initial Password

123456

Figure 19 Password input

Description: How to change the password?

·Log in to the administrator interface, select "Basic Settings" and click the "Password" button

·Enter the six-digit old password, new password, and confirm the new password (Figure 21), click "Confirm" and the modification is successful

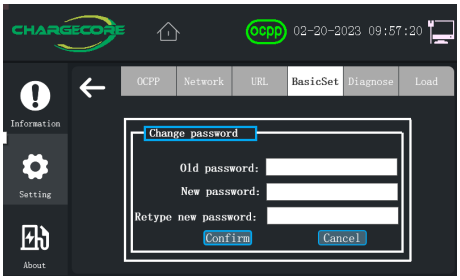


Figure 20 Basic Setting Diagram

Figure 21 Change Password

2. Network Configuration

-After entering the management interface, select "Network"

-Support WIFI, 4G, Ethernet

-The signal icon in the upper right corner of the screen is displayed as the corresponding networking mode (as shown in Figure 22), that is, the network connection is successful

Figure 22 Network configuration success signal icon

WIFI Set up

Step1：Select WIFI > Click Refresh

Step2：Enter WIFI password > Next step to confirm：

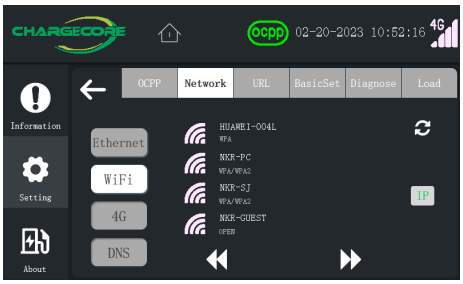


Figure 23 Select WIFI

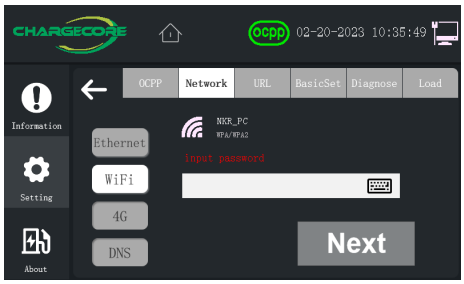


Figure 24 Enter WIFI password

4G set up

Step1：Select 4G > Set corresponding parameters

Step2：Confirm to switch to 4G

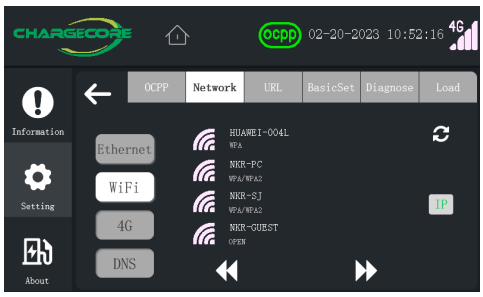


Figure 25 Select 4G network

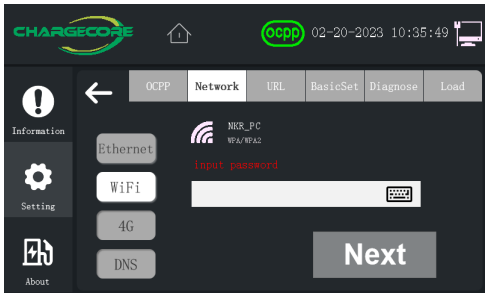


Figure 26 Confirm switch network

Ethernet set up

Select Ethernet > Tick Obtain Automatically/Set IP Address Manually > Confirm Connection

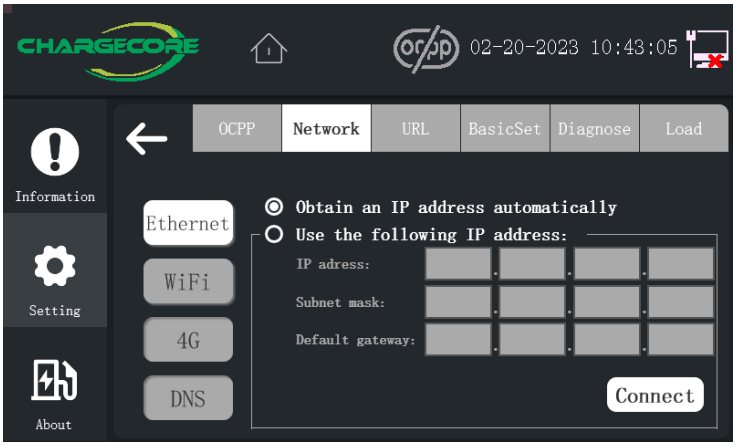


Figure 27 Select Ethernet

3.OCPP Platform Connection

After the charger network configuration is completed, it will automatically connect to the OCPP platform within 60s. After the connection is successful, the OCPP icon on the screen will light up (as shown in Figure 28）

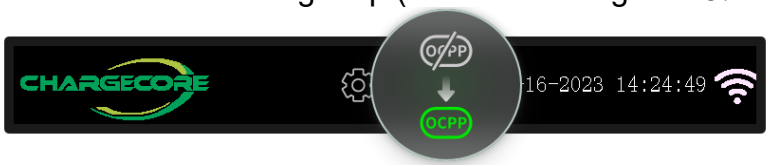


Figure 28 OCPP connection into

5.3 Charging Process

1. Take out the plug gun, insert the charging gun into the charging port of the vehicle, and the screen icon changes at this time (as shown in Figure 29 and Figure 30)

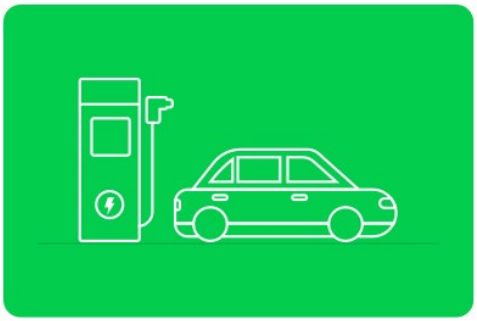


Figure 29 Unplugged state

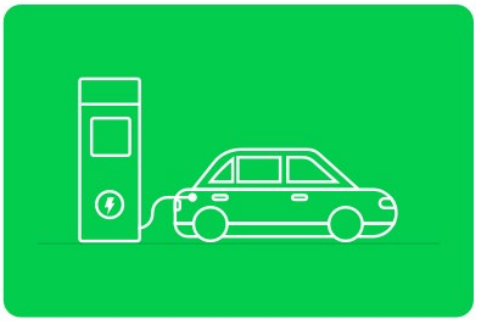


Figure 30 The gun is not inserted

2. After inserting the gun, click the "start" button and select the payment method.

Support RFID activation, APP scanning code activation, POS credit card activation (optional)

POS credit card (optional)

RFID

APP scan code (as shown in Figure 32)

Figure 31 payment method selection

interface

* App home page click“”button to scan the QR code (Note: For details on how to use other functions of the APP, please refer to the APP instruction manual)

Figure 32 Chargecore interface

3 Select charging mode

Support SOC mode, time mode, power mode, fast charging mode.

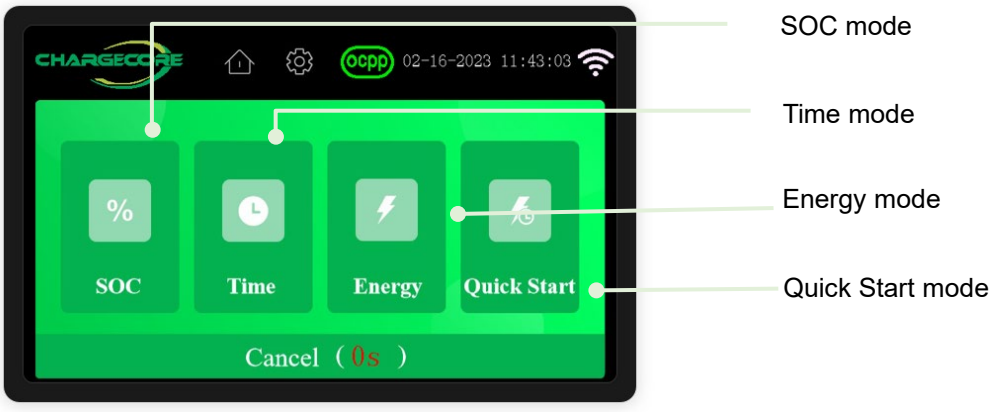


Figure 33 Charging mode selection - screen operation interface

* After the app scans the QR code, it enters the charging mode and payment method selection (note: please refer to the app instruction for detailed app usage)

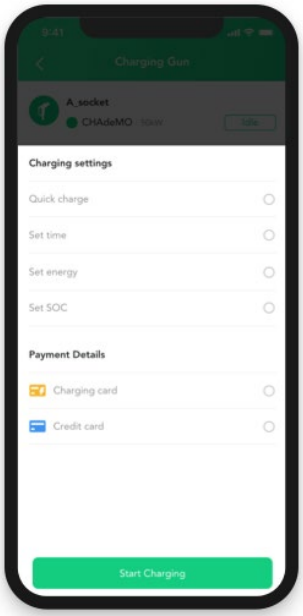


Figure 34 Charging mode selection - App operation interface

- Click to select SOC mode/time mode/power mode

  a. Enter the percentage of power required for this vehicle (%)/the required charging time for this time (min)/the required power for this charging (kwh) (as shown in Figure 35)

  b. Click to start charging

Figure 35 Time mode

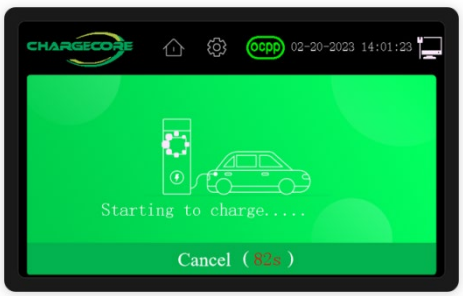


Figure 36 Initiating charging

➢ Click to select the fast charging mode to start charging immediately

4 Charging

·View vehicle charging details in real time (as shown in Figure 37)

·Charging will end automatically after it is fully charged / click the "STOP" button to end charging in advance

(Note: When using the App to charge, you need to operate the "STOP" button on the App)

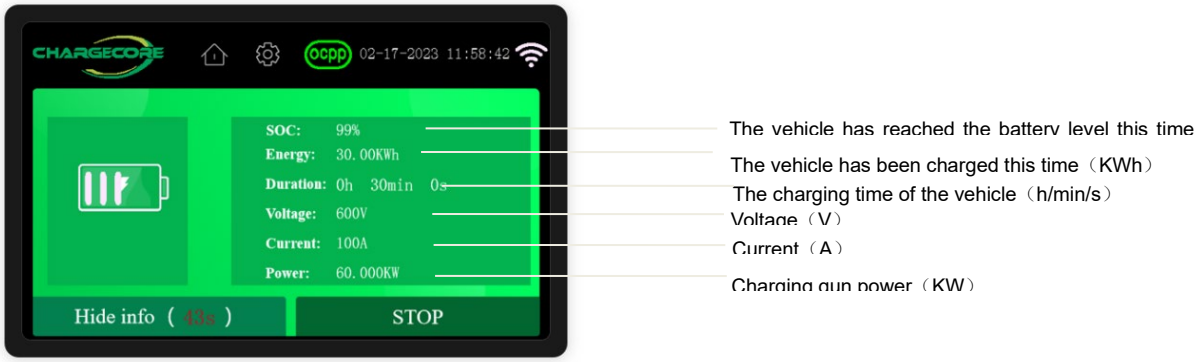


Figure 37 Charging interface

5. Pay for the order and view the order details.

When choosing an RFID card, you need to swipe the card again to pay (as shown in Figure 38)

When choosing an app, the payment will be automatically completed in the credit card/debit card bound to the app in the app

No need to operate when selecting the POS machine, the payment will be completed automatically after the charging stops

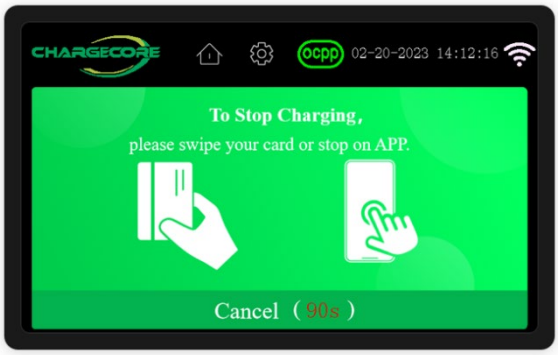
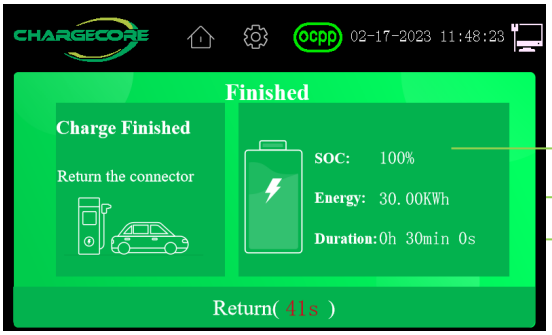


Figure 38 RFID card settlement interface



The vehicle has reached the battery level this time（%）

The current charge of the vehicle（KWH）

The charging time of the vehicle（h/min/s）

6. Emergency Operation

6.1 Emergency stop function

The emergency stop alarm is not part of the normal charging operation, only when there is an abnormality or misoperation, refer to this part. Do not use the "emergency stop button" for normal shutdown.

Emergency stop： Only in case of emergency, pressing the side "emergency stop button" system will cut off the output power. It can be reset by pressing the emergency stop button again.

6.2 Emergency stop button position

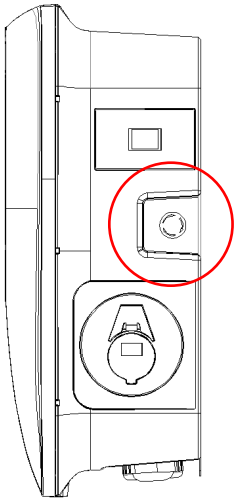


Figure 39 Emergency stop button

7. Completion Information

No.	Documentation name	Page	Document necessity
1	Unpacking record sheet	1	√
2	Pre-Installation Checklist	1	√

8. Version description

No.	Version number	Reviser	Revision date	Main content
1	V1.0	Liu Fang	2023.11.7	Add and explain the process of wiring in more detail.
2	V1.1	Liu Fang	2024.1.26	Revise comparison table of charger status indicators.
3	V1.2	Liu Fang	2024.2.27	Add information about terminal and cable recommendations for AC003PT119.
4	V1.3	Liu Fang	2024.4.30	Add the description of wiring terminals and related information about transportation and storage.
5				

Appendix 1

Unpacking record sheet						
Dealer name				Date		
No.	Item name	Goods	Qty	Certificate number	Condition	Remark
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
Unpacking conclusion						
signature column	Installation unit			Owner unit		

Appendix 2

Pre-Installation Checklist				
Project name:				
Civil construction unit:		Equipment installation unit:		
Sub-project	No.	Main acceptance items	Acceptance record	Treatment measures
Installation plan	1	Whether the on-site equipment installation conforms to the construction plan design drawings		
Distribution box circuit breaker	1	Meet equipment installation requirements (40A)		
Cable type	1	Refer to Table 5 in Chapter 2.7 to select the cable diameter and quantity according to the actual situation		
	2	Network cable cat6a (for Ethernet communication)		
wall mount foundation	1	Dimensions meet the requirements		
	2	The foundation bolts meet the requirements of chapter 2.9 in the installation manual		
Maintenance access	1	The inspection channel meets the equipment spacing requirements in Section 2.6		
in conclusion：				
Note: (1) Fill in "√" or "×" in the acceptance record according to the on-site situation; (2) Fill in "qualified" in the conclusion according to the on-site situation"needs rectification"				
Signature：_____ Year Month Date MMDDYY				

Appendix 3

Component Name	Toxic and hazardous substances or elements					
	Plumbum	Mercury	Cadmium	Hexavalent Chromium	Polybrominated Biphenyls	Polybrominated Diphenyl Ethers
	Pb	Hg	Cd	Cr6+	PBB	PBDE
PCB	○	○	○	○	○	○
Rubber Parts	○	○	○	○	○	○
Cable	○	○	○	○	○	○
Shell	○	○	○	○	○	○
Sheet Metal Parts	○	○	○	○	○	○

○：Indicates that the content of the toxic and hazardous substance in all homogeneous materials of the part is below the limit requirement stipulated in SJ/T-11363-2006

×：Indicates that the content of the toxic and hazardous substance in at least one homogeneous material of the part exceeds the limit requirement stipulated in SJ/T11363-2006

Note on the Environmental protection period: The environmental protection period of this product (marked on the product body) refers to the period from the date of production when the toxic and harmful substances or elements contained in this product will not cause serious impact on the environment, human life and property under normal conditions of use and in compliance with the safety precautions of this product.

Scope of application:Integrated AC charger.