



AC006 ETL standard AC

Home Charger

Installation Manual

AC006 ETL standard AC

Home Charger Installation Manual



Legal Notices

This document is an integral part of the technical documentation "Charging infrastructure" and is protected by copyright. Any use outside the strict limits of copyright law without written consent is prohibited. This also applies to copies, translations, photographed versions of documents, and documents stored and processed on electronic media.

Any party that violates this regulation is obliged to compensate for the loss!

Disclaimer of Warranty and Limitation of Liability

- All information, specifications and illustrations in this manual are based on the latest information available at the time of printing, and the images and illustrations described in the manual may be slightly different from the actual ones.
- The company reserves the right to make changes at any time without prior notice. Although this manual has been carefully checked, it does not guarantee the completeness and correctness of the contents of the manual, including but not limited to product specifications, functions, illustrations, etc.
- Before operating or maintaining this machine, please read this manual carefully, and pay special attention to safety warnings and precautions

CONTENT

1.General	6
1.1 Purpose of the document	6
1.2 Scope of application	6
1.3 Definition of relevant warning symbols	6
1.4 Safety Precautions	7
High pressure.....	9
2. Preparation before installation	13
2.1 Installation site	13
2.2 Conventional construction tools	14
2.3 Construction materials	15
2.4 Requirements for installers	16
2.5 Confirmation of construction drawings	17
2.6 Equipment spacing requirements	17
2.7 Power cable recommendation	19
2.8 Current and distribution capacity requirements	20
2.9 Fixed Foundation Requirements	22
2.10 Grounding/Insulation Resistance Requirements	22
3. Installation steps.....	23
3.1 Unpacking and unpacking inspection.....	23
3.2 Equipment installation, fixing and wiring.....	25
4. Inspection after installation	32
4.1 Installation wiring check.....	32
4.2 Check before power-on	32
4.3 Power ups	32
5.Charging/stop charging	34
5.1 RFID Card authorization to start/stop charging (Optional RFID function is required).....	34
5.2 APP authorization to start/stop charging.....	34
6. Emergency operation	35
6.1 Emergency stop function.....	35
6.2 Position of emergency stop button	35

7. Completion data	35
8. Version description	36
Appendix 1.....	37
Appendix 2.....	38
Appendix 3.....	39

1. General

1.1 Purpose of the document

This document is intended to guide the construction personnel to complete the on-site installation of the AC006 AC charger.

1.2 Scope of application

1.2.1 This manual applies to equipment types

AC006 AC charger

1.2.2 This manual is suitable for the following groups of people

AC006 AC charger installer

1.3 Definition of relevant warning symbols

No.	Mark	Meaning
1		Operations or situations in which hazardous voltages must be handled with extreme caution
2		Important safety information, must be handled with extreme caution
3		Indicates a burn hazard arising from hot areas or areas with high component temperatures
4		Protective earth connection
5		Alternating current
6		Indicates that the described operations must be performed using employer-supplied clothing and/or personal protective equipment

Table 1 Definitions of related warning symbols

1.4 Safety Precautions

Before starting the operation, please read the operation instructions and precautions carefully to reduce accidents. The " Caution, Warning, Danger" items in the product and product manual do not represent all safety items that should be observed, but are only supplements to various operational safety precautions.

	Please keep this manual in a safe place.
---	--

When operating the company's products and equipment, it is necessary to abide by the safety regulations of the relevant industry, and strictly abide by the relevant equipment precautions and special safety instructions provided by the company.

Safety instructions

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 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.

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

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

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. Switches, buttons, etc. that are not allowed to be operated during the installation process must be marked with prohibition of operation.
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 conductive objects such as watches, bracelets, bracelets, and rings on the wrist during operation.
5. If you find water or humidity on the body, please turn off the power immediately. When operating in a humid environment, water should be strictly prevented from entering the device.

High pressure

	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.
	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.
	The device ground conductor is improperly connected, which may cause contact danger. If you are in doubt about whether your product is properly grounded, consult a qualified electrician or repairman. Do not modify the plug provided with the product. If the plug does not fit into the socket, install a suitable socket by a qualified electrician.
	The NEMA 6-50 connector can only be used in indoor environments.

Tool

	When performing various operations on high voltage and alternating current, special tools must be used.
---	---

Thunderstorm

	It is strictly forbidden to use high voltage and alternating current in thunderstorm weather.
---	---

During thunderstorms, strong electromagnetic fields are generated in the atmosphere. Therefore, in order to avoid lightning damage to the equipment, it is necessary to do a good grounding of the equipment in time.

Static electricity

	The static electricity generated by the human body will damage the electrostatic sensitive components on the circuit board, such as large-scale integrated circuits (IC). Before touching equipment, holding boards, circuit boards, IC chips, etc., you must wear an anti-static wrist strap and ground the other end of the anti-static wrist strap to prevent static electricity from damaging sensitive components.
---	--

Short circuit

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

-  When performing live work, the polarity of cables and interface terminals must be strictly checked.
-  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

Object sharp corner

	When carrying the equipment by hand, wear protective gloves to prevent cuts from sharp objects.
---	--

Power cable

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

Signal line

	Signal cables should be bundled separately from power cables, with a spacing of at least 15 mm.
---	--

	Do not install or use this product near flammable, explosive, rough or combustible materials, chemicals or vapors.
	Before installing or cleaning this product, please turn off the power.
	Do not use this device in the presence of children.
	Please use this product according to the specified operating parameters.
	Do not spray water or other liquids directly on the wall-mounted cabinet. Do not spray water or immerse the charging gun in liquid. Please put the charging cable into the protective seat to avoid accidents
	Discontinue use if this product is cracked, worn, broken or otherwise damaged, or if it does not function properly.
	Discontinue use if flexible power cord or EV cable is frayed, broken or otherwise damaged or not functioning properly.
	Do not attempt to disassemble, repair, tamper with or modify this product. This product is not a user-serviceable device. For repair or modification, please contact your dealer.
	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, and do not pull, twist, tangle, drag or step on it

	Do not touch the end of this product with your fingers or sharp metal objects such as wires, tools or needles.
	Do not insert fingers or foreign objects into any part of this product.
	Do not fold or press any part of this product, or damage this product with sharp objects. Do not fold or press any part of this product, or damage this product with sharp objects.
	When performing various operations under high voltage and alternating current conditions, special tools must be used.

2. Preparation before installation

2.1 Installation site

When selecting a charging device, consider the environmental conditions listed in the table below.

Environmental conditions	Recommended range
Ambient temperature	-25℃ ~ + 50℃
Altitude	≤2000m
Humidity	5%~95%RH, No condensation inside the product;
Dust	≤1mg/m ³
Corrosive substances	Free from pollutants such as salt, acid, smoke, etc.
Shock	≤1.5mm/s
Insects, pests, vermin, termites	None
Mold	None

Table 2 Installation Environment Confirmation Form

·Do not install in places where it is easy to soak in water

·Please avoid the place where the car collides with the installation

This product is suitable for C3 atmospheric environment (ISO 12944-2:2017 Chapter 5.1 table 1), do not expose this product to areas with high pollution and high salt mist . For example, in the vicinity of a chemical plant, within 10 km of the sea, etc. 

2.2 Conventional construction tools

No.	Category	Name	Use	Picture
1	wire preparation tool	Electrician's knife	Peeling of insulating sheath	
2	tools for installation	wire stripper	Peeling of insulating layer	
3	tools for installation	Crimping Tool	Terminal crimp	
4	tools for installation	impact drill	Component tube clip installation	
5	tools for installation	Electric air pick machine	slotted	
6	tools for installation	Cutting Machine	Cut the tube	
7	tools for installation	heat gun	Heat shrinking of insulating materials	
8	tools for installation	hot melt machine	Welded PE water pipe	
9	tools for installation	Allen key (full set)	Install and remove screws	
10	tools for installation	Open-end wrench (full set includes No. 13)	Install and remove the nut	
11	tools for installation	Angle Grinder	grinding of materials	
12	tools for installation	Phillips screwdriver (full set)	Remove and install screws	

13	measuring instrument	Laser level	Level measurement	
14	measuring instrument	level	Level measurement	
15	measuring instrument	multimeter	Measure voltage, current, etc.	
16	measuring instrument	Megohmmeter	Measuring insulation resistance	
17	assistive device	Insulating floor mat	Placing the disassembled parts	
18	Lifting tools	Manual crane	Equipment lifting	

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

Table 3 List of conventional construction tools

2.3 Construction materials

2.3.1 Cable

Refer to the table below to select the corresponding terminals according to different wire diameters.

Wire diameter	Terminal model	Wire diameter	Terminal model
8AWG (8.37mm ²)	E10-12	7AWG (10.55mm ²)	E10-12
6AWG (13.3mm ²)	E16-12		

Table 4 Cable Diameter Comparison Terminal Table

2.3.2 Cable

If you need to use the Ethernet communication function, it is recommended to use a shielded twisted-pair network cable (cat6a) and RJ45 crystal plug. The

length of the network cable shall not exceed 75m. If it exceeds 75m, the customer needs to customize the construction plan according to the site conditions.

2.3.3 Other materials

Heat-shrinkable tubes, insulating tapes and other auxiliary materials required for making cables.

2.4 Requirements for installers

(1) Entering the construction site should abide by the construction site safety management regulations.

(2) When entering the construction site, you must correctly wear a safety helmet (fasten the chin strap, the safety helmet is in good condition), do not wear unsafe clothing such as loose clothing and slippers, and are strictly prohibited from drinking to work and smoking on the construction site.

(3) High-altitude workers must wear safety helmets, hang seat belts, wear non-slip shoes, and fasten labor tools.

(4) If the construction site is dusty or there is painting work, protective masks must be worn.

(5) Do not enter the hoisting area, below the vertical operation and other dangerous areas, and place objects to strike.

(6) Try to stay away from various mechanical equipment and electrical circuits to prevent mechanical and electrical damage.

(7) Those who use mobile power tools must master their use skills and precautions, wear insulating shoes and gloves as much as possible, and the metal shell must be grounded or zero-connected.

(8) For temporary electricity use on site, the electrical box must be kept intact, and damaged electrical components must be replaced in time.

(9) Rubber cables should be used for temporary on-site wires, plastic flower wires are prohibited, and wires are not allowed to be directly inserted into sockets.

(10) Try to avoid live work.

(11) When entering the foundation pit, roof and other marginal places and various openings, you must concentrate your energy to prevent falling from heights.

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

(13) Site construction protection facilities, safety signs, warning signs, etc.

shall not be dismantled without authorization.

(14) Strengthen the on-site maintenance of construction equipment, maintain the intact rate, and prohibit the operation with illness and overload operation.

(15) This product is suitable for C3 (E2) atmospheric environment

(ISO 12944-2:2017 Chapter 5.1 table 1 & IEC 60815-1:2008 Table 5),

do not expose this product to areas with high pollution and high salt spray. For example, in the vicinity of a chemical plant, within 10 km of the sea, etc.

If the product will be installed in a highly contaminated area, please declare it in advance or contact us.

(16) Please make sure that the L1/L2/L3/N cables are all connected firmly. ! During the charging process, if the cable is loose, it may cause overvoltage failure; and in severe cases, the charger will be damaged !

2.5 Confirmation of construction drawings

After the installer arrives at the site, he first checks the drawing of the installation location of the equipment, and checks whether the cables of each equipment meet the requirements.

2.6 Equipment spacing requirements

In order to ensure the safe and reliable operation of the equipment, ventilation and maintenance requirements, sufficient installation space and installation height should be reserved.

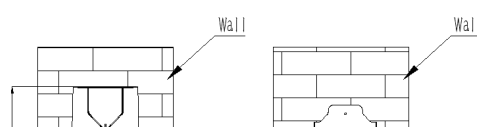
2.6.1 Installation Space Requirements

550 x 720 mm is required, the space is calculated as follows:

- The reserved spacing on the front side is $\geq 400\text{mm}$ (to ensure that the front door switch is normal and related operations are smooth)
- The reserved spacing on the lower side is $\geq 200\text{mm}$ (to ensure smooth entry and exit)
- The reserved spacing on the right side is $\geq 500\text{mm}$ (to ensure that the gun holder is inserted smoothly)

2.6.2 Installation height requirements

It is recommended to install according to the height marked in the figure below,



and the height of the product from the ground is 800mm. Example as shown in Figure 1

Figure 1 Installation height requirements

2.6.3 Parking space requirements

When the charger is installed in a parking space or in the middle of back-to-back parking spaces, it is recommended to leave a space of 800mm between the car wheel chock and the charger to facilitate the use of the charger. An example is shown in Figure 2:

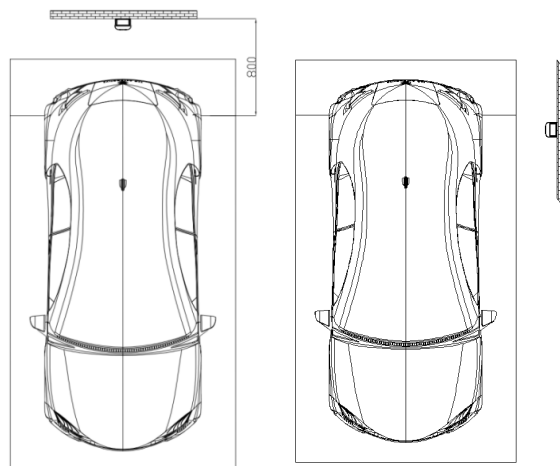


Figure 2 Parking distance requirements

2.7 Power cable recommendation

Phase sequence/color	L1 brown	L2 black	PE yellow green	Remark
AC006T17/AC006NA7 single-phase 32A	8AWG (8.37mm ²)	8AWG (8.37mm ²)	8AWG (8.37mm ²)	US
AC006T19/AC006NA9 single-phase 40A	7AWG (10.55mm ²)	7AWG (10.55mm ²)	7AWG (10.55mm ²)	US
AC006T111/AC006NA111 single-phase 48A	6AWG (13.3mm ²)	6AWG (13.3mm ²)	6AWG (13.3mm ²)	US

Table 5 Wire Diameter Selection Tab

It is recommended to use cables with a voltage level of 400V and above for the AC006 AC station, and the temperature resistance of the cables should reach at least 90°C. The installer confirms whether shielding is required according to local laws or regulations. If there is a shielding layer, both ends of the shielding network must be connected to the PE wire. The power distribution input wire diameter of the charger is recommended not to be lower than the following recommended values. If the wire diameter

does not comply with laws and regulations, please refer to the requirements of local laws and regulations.

2.8 Current and distribution capacity requirements

Please confirm the relevant information requirements of the distribution network according to the table below, and select according to the recommended circuit breaker selection requirements.

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

charger specification	Distribution grid voltage	Wiring form	Grid capacity	Rated current	Circuit breaker selection	Remark
AC006T17/AC006NA7 single-phase 32A	240VAC,50/60Hz	L1+L2+PE	$\geq 8.75\text{kVA}$	40A	Ue=240V, $\geq 40\text{A}$,Thermomagnetic, $I_{cu} \geq I_{cs} \geq 40\text{kA}$,2P	US
AC006T19/AC006NA9 single-phase 40A	240VAC,50/60Hz	L1+L2+PE	$\geq 11.25\text{kVA}$	50A	Ue=240V, $\geq 50\text{A}$,Thermomagnetic, $I_{cu} \geq$ $I_{cs} \geq 40\text{kA}$,2P	US
AC006T111/ AC006NA111 single-phase 48A	240VAC,50/60Hz	L1+L2+PE	$\geq 13.75\text{kVA}$	60A	Ue=240V, $\geq 60\text{A}$,Thermomagnetic, $I_{cu} \geq$ $I_{cs} \geq 40\text{kA}$,2P	US

Table 6 Distribution network requirements and circuit breaker selection

Installation

2.9 Fixed Foundation Requirements

When using the back panel to hang on the wall, it needs to be installed on solid brick, concrete or an installation surface with a certain degree of flatness equivalent to its strength. Its load-bearing capacity should be greater than 100 kg/square meter. Do not hang this product on sandy soil walls, gypsum boards, marble, glass boards and steel plates.

2.10 Grounding/Insulation Resistance Requirements

(1) Check the civil engineering grounding resistance test report to ensure that the resistance value of the grounding grid produced on site must be $\leq 4\Omega$.

(2) Check the civil engineering insulation resistance test report to ensure that the insulation resistance of the cable is $\geq 10M\Omega$.

 **Important: The above requirements are the minimum requirements for this device, and the specific standards are subject to local laws and regulations.**

Installation

3. Installation steps

3.1 Unpacking and unpacking inspection

3.1.1 Equipment packing list

Name	Package	Configure	Accompanying document	Parts List
Device body	Wooden box	Standard	- Certificate of Qualification-Factory inspection report -Installation manual (electronic version)	RFID Card*5(Optional RFID function is required) Expansion plug*3 Screw M4×30mm *3 Screw M4×8mm *4

Table 7 Equipment packing list

3.1.2 Unpacking inspection

- (1) Check the packing list number and equipment quantity.
- (2) Check the equipment nameplate information.
- (3) Check whether the random files are complete.
- (4) Check whether the spare parts and accessories are complete.
- (5) Check the factory inspection report and certificate of conformity.
- (6) Check whether the appearance of the equipment is good, and whether there is deformation, bumps, stains, etc.

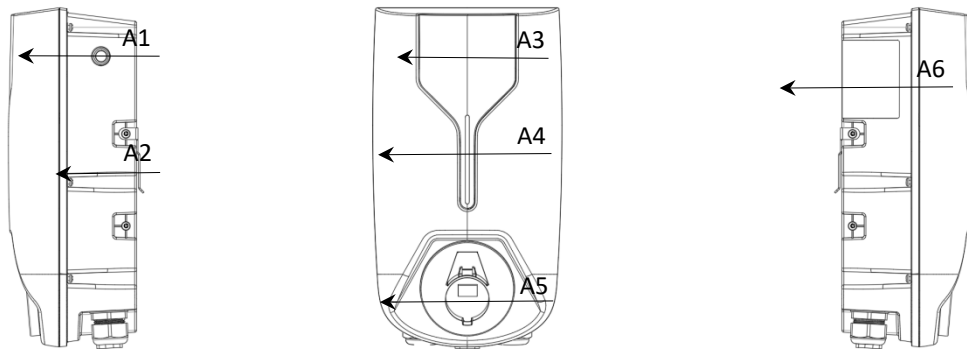
3.1.3 Unpacking precautions

- (1) The installer shall unpack in the presence of the owner, and fill in the unpacking record in detail. See Appendix 1 for the unpacking record sheet.
- (2) After unpacking and checking, please ask the owner's representative to confirm and sign on the equipment unpacking record sheet.
- (3) If problems are found during the unpacking and acceptance of the equipment, in addition to making records, wait for the negotiation between the owner and the supplier.

Installation

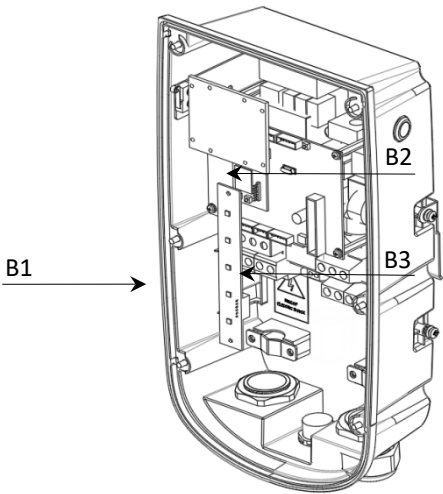
3.1.4 Product parts introduction

(1) The components of the exterior facade of the product are shown in Figure 3, and the internal components are shown in Figure 4.



A1	Emergency Stop Switch	A2	Backplane	A3	Deckboard
A4	LED Indicator	A5	Socket	A6	Nameplate

Figure 3 Product Component Diagram



B1	Indicator Board	B2	Core Board	B3	Base Board
----	-----------------	----	------------	----	------------

Figure 4 Diagram of internal components

Installation

3.2 Equipment installation, fixing and wiring

3.2.1 Installation size

The installation dimensions of the equipment are: 196mm × 350 mm × 133 mm, and the appearance dimensions are shown in Figure 5.

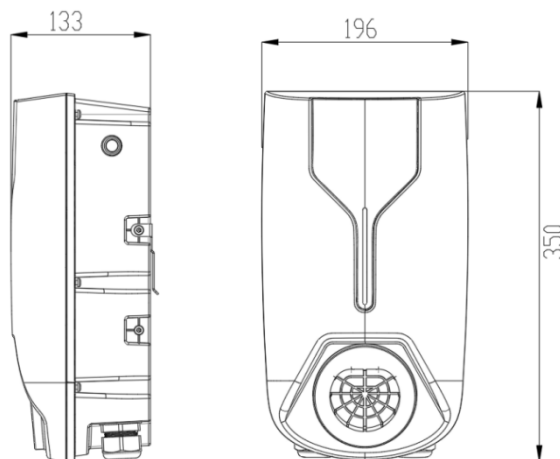
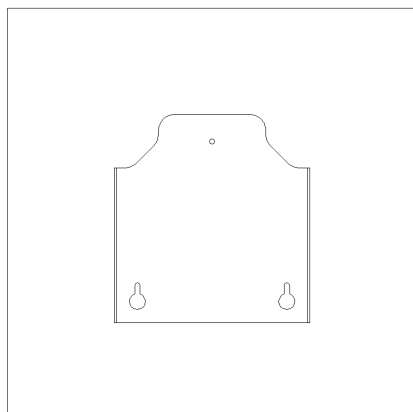


Figure 5 Schematic diagram of product size

3.2.2 Unbox

Open the outer packing box, and take out the screw accessory package, charger body and



charger hanger.

3.2.3 Installation

(1) Put the charger hanger on the wall and use tools to level it.

Figure 6 Schematic diagram of leveling the charger hanger

Installation

(2) Mark the three mounting holes below with a marker pen, and then drill three 6mm holes (4 cm deep).

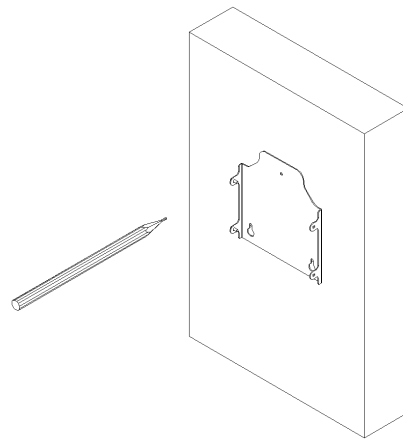


Figure 7 Schematic Diagram of Mounting Hole Positioning

(3) Insert three 6mm diameter expansion plugs into the mounting holes below.

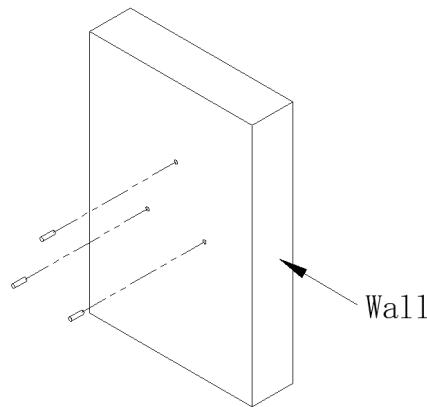


Figure 8 Schematic diagram of placing the expansion plug

(4) Insert three M4×30mm screws into the mounting holes below to fix the hanger on the wall. Prefix first, then tighten the three screws.

Installation

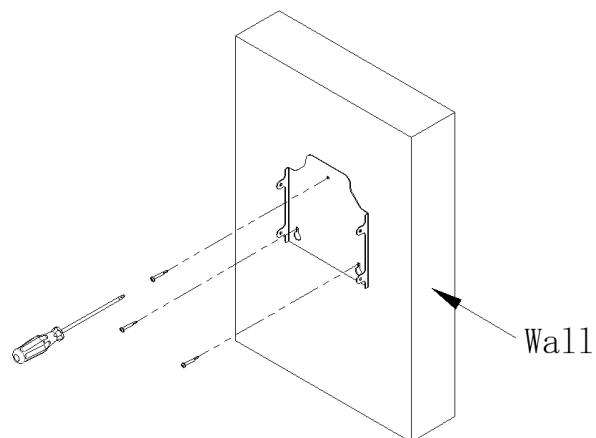


Figure 9 Schematic diagram of hanger installation

(5) Align the screw holes of the charger with the threaded holes of the hanger, prefix them with four M4×8 screws, and then tighten them. Recommended torque: 2.4N·M.

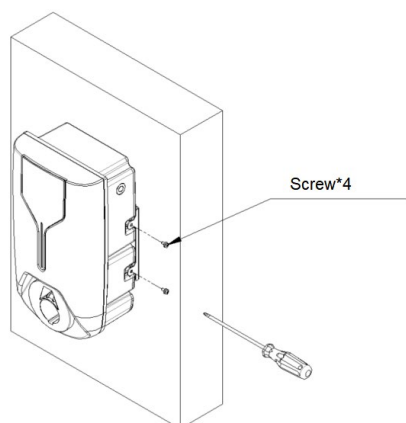


Figure 10 Schematic diagram of charger installation

Installation

3.2.4 Connect the Ethernet cable (Optional Ethernet function is required)

The charger supports Ethernet connection. When using an Ethernet cable to connect, insert the Ethernet RJ45 plug into the RJ45 interface at the bottom of the charger.

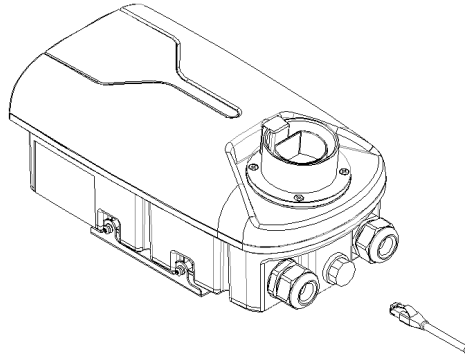


Figure 11 Schematic diagram of connecting the Ethernet cable

3.2.5 Wiring

Notice! The AC input cable is routed from the user power distribution switch, and the cable is connected to the output terminal of the user switch when the power is finally ready.

Step 1: Use a Phillips screwdriver to remove the junction box cover (screw *4)

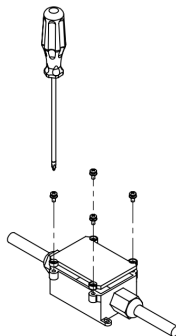


Figure 12 Removing the junction box cover

Step 2: Unscrew the nut of the lead wire, and pass the nut into the wire body to be connected.

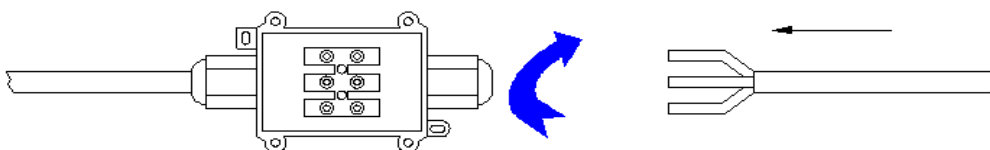


Figure 13 Schematic diagram of threading

Installation

Step 3: Pass the lead wire through the hole, connect it to the corresponding wiring pair according to the corresponding identification of L1/L2/PE, and tighten it.

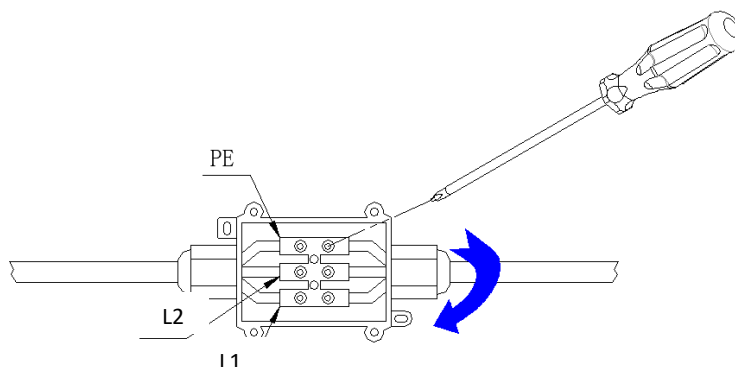


Figure 14 Wiring

Step 4: **Important!** Check that the wiring is secure, that the cables are not broken, damaged, or scratched, and that there is no metal debris left in the junction box.

Note: Please make sure that the L1/L2/L3/N cables are all connected firmly.! During the charging process, if the cable is loose, it may cause overvoltage failure; and in severe cases, the charger will be damaged!

Step 5: Tighten the lead nuts, put the junction box cover on the junction box, and tighten with 4 screws.

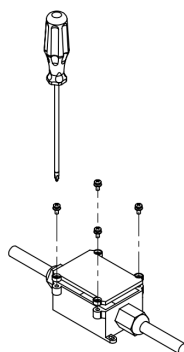
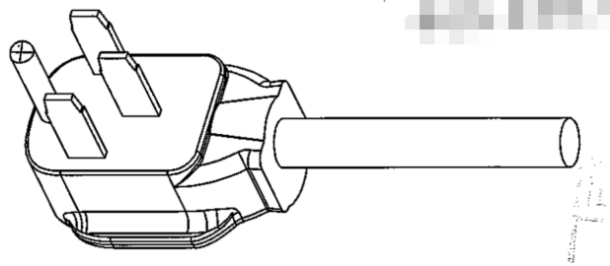


Figure 15 Install and tighten the junction box

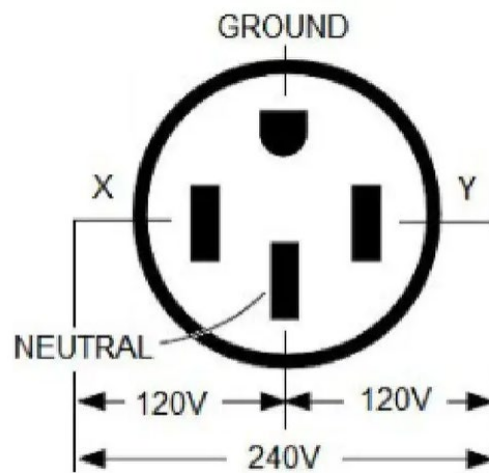
NEMA15-40 input-plug Connection (Customization optional)

- According to the customer's customized requirements, when configuring the NEMA plug, the default configuration cable is 0.3m~0.6m.
-

Installation



- Check that the plug and cable are not damaged or deformed. Simply insert the plug directly into the outlet.
- The NEMA15-40 plug support Maximum 50 amp output.



Installation



Warning: Must be carried out in accordance with the specifications and correct operation steps. Improper execution may result in personal injury or death.

Installation

4. Inspection after installation

4.1 Installation wiring check

4.1.1 Equipment and equipment fixing inspection

- (1) The appearance of the charger is clean and tidy, there is no bump damage, the position is consistent with the base, and it is firmly fixed without loosening.
- (2) The orientation of the equipment meets the installation standards.
- (3) There is no leakage of equipment installation accessories.
- (4) The book review of the level measuring equipment meets the specified requirements.

4.1.2 Cable laying and connection inspection

- (1) Check whether the cable insulation is scratched or damaged.
- (2) Check whether the power cable terminals are compliant and the wiring is firm.
- (3) Check that the communication cable terminals are correct and not loose.
- (4) Check for hanging cable labels.
- (5) Check whether the cable bending radius meets the requirements.
- (6) Check whether the electrical grounding is reliable.

4.2 Check before power-on

After ensuring that the charger is installed stably and the wire connection is reliable, etc., the charger can be powered on.

4.3 Power ups

Switch on the main switch of the external AC power supply of the charger.

Installation

The blue breathing light of the indicator light is on.

Blue light is always on	Connected to the network, standby
Blue breathing light	Not connected to the network, standby
Green light	Connected to the network, charging
Green breathing light	Not connected to the network, charging
Steady red light	Connected to the network, fault status
Red breathing light	Not connected to the network, fault status

Table 8 Comparison table of charger status indicators

Installation

5.Charging/stop charging

5.1 RFID Card authorization to start/stop charging (Optional RFID function is required)

After the RFID function is selected, the charger can be authorized through the RFID card when it is connected to the Internet or offline. After connecting the charging gun to the electric vehicle, place the RFID card in the card swiping area to start charging.

After charging is complete or stop charging halfway, put the RFID card in the card swiping area to unlock the charging gun and stop charging.

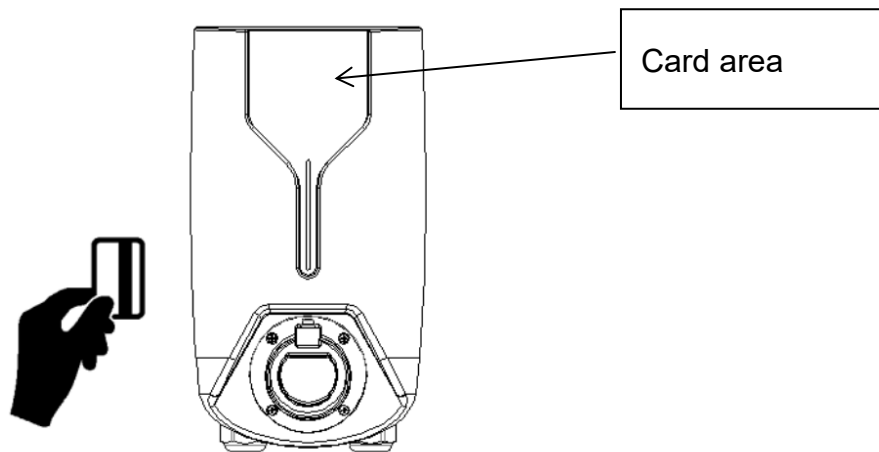


Figure 13 Schematic diagram of credit card authorization

Note: If you find that the RFID card cannot be used offline, please use the RFID card to perform an authorized charge while keeping the charger online, so as to activate the card.

5.2 APP authorization to start/stop charging

See the APP manual for details.

Note: APP can only be used normally when the charger is connected to the Internet.

Installation

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 Position of emergency stop button

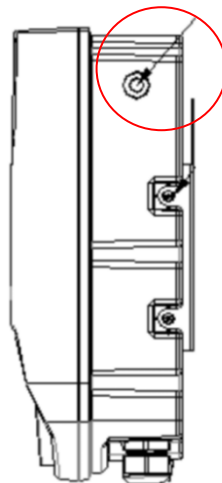


Figure 16 Emergency stop button

7. Completion data

No.	File name	Pages	Document necessity
1	Unpacking record sheet	1	√
2	Pre-installation checklist	1	√

Installation

8. Version description

No.	Version number	Reviser	Revision date	Main content
1	V1.0	Liu Fang	2023.12.6	Add document revision& history.
2	V1.1	Liu Fang	2024.4.25	Replace the product picture and update the product dimension.
3	V1.2	Zhang Jipeng	2024.11.4	Add NEMA Input-plug .
4	V1.3	Zhang Jipeng	2024.12.4	Add atmospheric environment notice.
5				

Installation

Appendix 1

Unpacking record sheet						
Dealer store name				Unpacking date		
Serial No.	Name of Goods	Actual goods	Qty	Certificate No.	Equipment	Remarks
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
Unpacking conclusion						
Signature field	Installation Unit			Owner unit		

Installation

Appendix 2

Pre-installation checklist				
Project name:				
Civil construction:			Equipment installation unit:	
Sub-project	No.	Main acceptance items	Acceptance record	Treatment measures
Installation plan	1	Whether the installation of on-site equipment conforms to the design drawings of the construction plan		
Distribution box circuit breaker	1	Meet the equipment installation requirements		
Cable type Cement foundation	1	The diameter and quantity of cables are selected according to the actual situation by referring to Table 5 in Section 2.7.		
	2	Network cable cat6a (if Ethernet communication is required)		
maintenance channel Sub-project	1	Dimensions meet the requirements		
	2	The foundation bolts meet the requirements of chapter 2.9 in the installation manual		
Installation plan	1	Maintenance access meets the equipment spacing requirements in Section 2.6.3		
Conclusion:				
Note: (1) The acceptance record is filled with "√" or "x" according to the on-site situation; (2) The conclusion is filled with "qualified" or "required rectification" according to the on-site situation				
Signature of the person in charge of inspection: _____				
Date: _____				

Installation

Appendix 3

Part 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.						