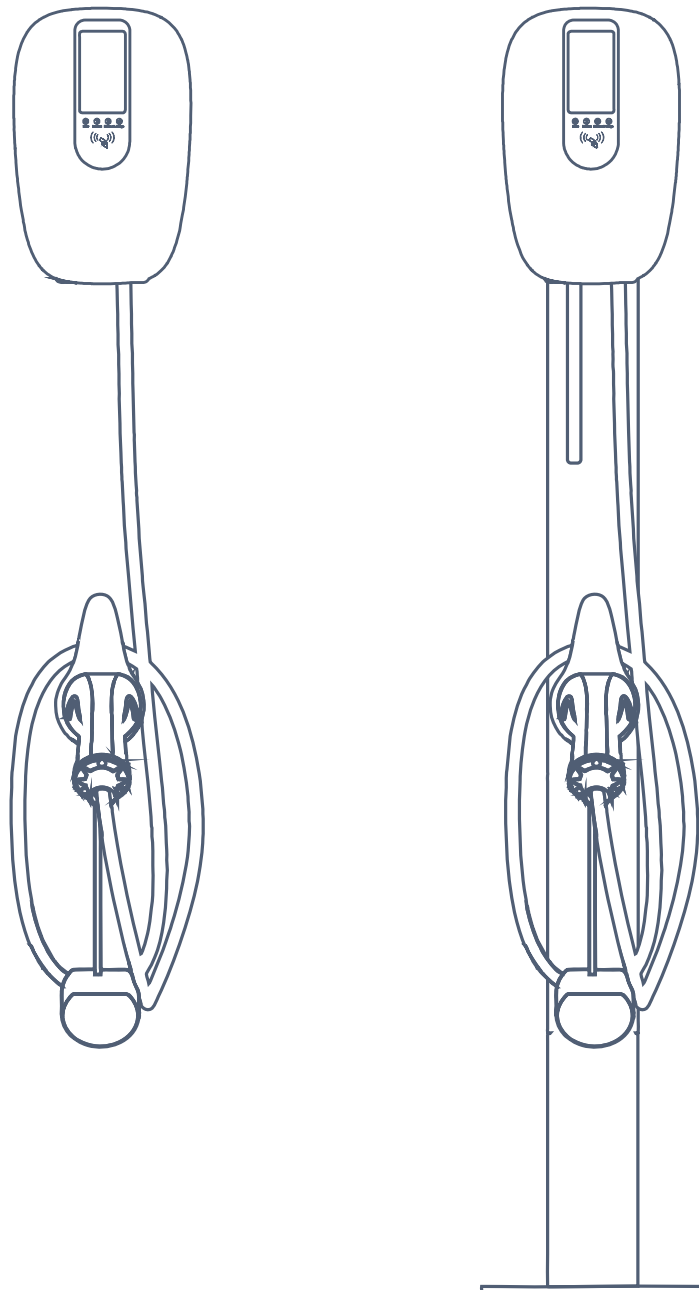


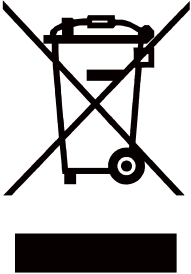




32A 40A 48A

Single-phase AC EV Charger User Manual

Before operating this product, please read the enclosed Operating Instructions completely.



Symbol meaning

Symbol	meaning
	"Non-recyclable" mark: located on the product, instruction manual or package, indicating that electrical and electronic equipment and its accessories should be treated separately from ordinary household waste. When scrapped, it should be treated as industrial waste, otherwise it may cause accidents.
	Warning sign: indicates danger. Pay attention to the personal injury that may be caused by operation procedure or incorrect operation. Actions after the "warning" mark can only be performed when the conditions indicated by the condition are fully understood and satisfied.
	"FCC" mark: on the product, instruction manual or package, indicating that the product has passed the safety certification mark.
	"CE" mark: on the product, instruction manual or package, indicating that the product has passed the safety certification mark.
	"RoHS" mark: on the product, instruction manual or package, indicating that the product has passed the safety certification mark.

The company is committed to the continuous improvement and update of the product, product hardware and software will continue to upgrade, the information provided is subject to change without prior notice.

Version: V2.0

Revision date: 2022-3

FCC COMPLIANCE STATEMENT:

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.

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

FCC Radiation Exposure Statement

The device has been evaluated to meet general RF exposure requirement.

The device can be used in mobile(min20cm) exposure condition.

IC Statement

This device complies with Canada Industry licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference; and
- (2) this device must accept any interference. Including interference that may cause undesired operation of the device.

Avis d'Industrie Canada

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 le brouillage radioélectrique subi même si le brouillage est susceptible d'en compromettre le fonctionnement.

CAN ICES-3 (B)/ CAN NMB-3 (B)

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

catalogue

Product overview - - - - -	01
product function/basic parameters - - - - -	02
Important information - - - - -	03
Troubleshooting - - - - -	04-07
Fault indicator prompt - - - - -	08
Maintainance- - - - -	09
Wire Connection Instructions - - - - -	10-11
Installation steps - - - - -	12-15
Usage Steps - - - - -	16
Steps for adding APP device - - - - -	17
Charging instructions on APP- - - - -	18
APP current switch step- - - - -	19
Steps for APP appointment time- - - - -	20

Product overview



Appearance of charging pile

Product Function

1. RFID card and APP starting methods both supported;
2. Reservation charging function, which can be charged regularly according to user needs, and it will automatically end when fully charged.
3. The historical record function can query the historical charging record and expense record.
4. Equipped with display screen to display SOC information in real time, Estimated fill time.
5. With overload protection, overvoltage protection, undervoltage protection, short circuit protection, overtemperature protection, emergency stop and other functions.
6. Convenient charging, plug and play.

Basic Parameters

Model	GS-AC32-B02	GS-AC40-B02	GS-AC48-B02
FVIN	V1.0.7_32A	V1.0.7_40A	V1.0.7_48A
HVIN	CHG50ABV13	CHG50ABV13	CHG50ABV13
parameter			
voltage	220v-260V		
Rated current	32A	40A	48A
Frequency	50/60Hz		
IP Code	IP65		
Use environment			
Working temperature	-30℃ ~ +50℃		
Working humidity	5%~95%HR		
The cooling way	Natural air cooling		
Display function			
Display parameters	Charge voltage, charge current, charge quantity fault code.		
Physical size			
Fuselage size	320*210*120mm		
Installation mode	Column mounted (floor mounted) or wall mounted Install optional.		

* LCD Screen/WIFI/Bluetooth/4G/Ethernet and OCPP is optional function, below manual is for reference only
it don't mean the device you get have all such function

Important information

Electrical hazard
Only trained, qualified and authorized electrical professionals are responsible for installation. The first commissioning and maintenance of the charger should comply with existing standards and installation regulations.
Electrical Hazard/Fire Hazard
<ul style="list-style-type: none">• The charger's socket or charging gun (including the charging cable) must be regularly inspected for damage, and the casing must be inspected for damage.• If the charger is damaged, it must be switched off immediately and replaced• Do not perform charger repair or replacement without authorization, only by the manufacturer.• Do not modify or modify the charger without authorization.<ul style="list-style-type: none">• Do not remove safety symbols, warning tips, nameplates, signs or pipeline marks.• When installing for the first time, disconnect the power supply before connecting the external power supply to the charger input. Do not connect the line with live power.• No extension cable shall be used when connecting the electric vehicle to the electric vehicle power supply unit.• Only connect electric vehicles or their charging equipment, do not connect other loads (power tools, etc.). When pulling the charging gun, please hold the plug, do not pull the cable.• Do not bend, squeeze or bend the charging gun to cause mechanical damage.• Do not contact the contact surface of the equipment with heat, dirt, or water. Some vehicles may generate toxic or explosive gases in indoor areas during charging and must be equipped with an external ventilation system.• When using the charger to charge the electric vehicle, please carefully read the relevant tips and instructions of the vehicle.• Avoid falling of the charger from a high place or impact from strong mechanical force: otherwise, electrical safety of the device may be damaged, resulting in potential safety hazards.• It is strictly prohibited to use in the environment with combustible material or explosive gas, otherwise there is the risk of explosion.• Do not let conductive objects such as metal foreign matter fall into the charger otherwise accidents may occur.• The PE end of the charger must be grounded reliably; otherwise, electric shock or fire may occur.

Troubleshooting

The fault name	Symptom Possible causes
AC overvoltage	AC input voltage too high
Rule out advice	
<ol style="list-style-type: none"> 1. If the voltage exceeds 288 Vac for a short time, wait for the power grid to restore itself to the normal voltage range. 2. Check the background monitoring data and analyze. If the voltage in this area is overvoltage for a long time, adjust the input overvoltage protection point to 288 Vac by configuring software. 	
The fault name	Symptom Possible causes
AC undervoltage	AC input voltage too low
Rule out advice	
Check the background monitoring data and analyze. If the voltage in this area is chronically undervoltage (192 Vac), the protection point of input undervoltage can be adjusted to 90 Vac at least by configuring software.	
The fault name	Symptom Possible causes
AC undervoltage	AC input voltage too low
Rule out advice	
<ol style="list-style-type: none"> 1. Immediately turn off the leakage/overcurrent protection circuit breaker of the power distribution box. 2. Check whether there is low impedance or short circuit between the output line of AC pile. 3. After the fault is rectified, power on the device again. If the fault persists. 	
The fault name	Symptom Possible causes
AC undervoltage	The temperature in the AC pile is too high
Rule out advice	
Check the AC pile installation environment. Check whether there are other heating devices nearby. Ensure that the ambient temperature is below 50°C.	

The fault name	Symptom Possible causes
Leakage current exceeds standard	High leakage current to the ground
Rule out advice	
1. Immediately turn off the leakage/overcurrent protection switches in the power distribution box. 2. Check whether the output line of AC pile is damaged or has low impedance to the ground. 3. After the fault is rectified, power on the device again. If the fault persists, contact us.	
The fault name	Symptom Possible causes
Ground fault	The input/output is improperly grounded or the input L/N is inversely connected
Rule out advice	
1. Immediately turn off the leakage/overcurrent protection switches in the power distribution box 2. Check whether the input and output cables of AC piles are grounded properly and whether the input L/N cables are connected in normal sequence. 3. After the fault is rectified, power on the device again. If the fault persists, contact us.	
The fault name	Symptom Possible causes
Abnormal communication (Internet mode)	Poor background communication of AC pile
Rule out advice	
1. Check whether the network cable is properly connected. 2. Check whether charging piles are correctly configured in the background.	
The fault name	Symptom Possible causes
Abnormal connection of charging gun	Charging gun CC/CP Connection exception
Rule out advice	
1. Check whether the charging gun is connected correctly and reliably. 2. If the fault persists, contact us.	

Troubleshooting

Fault display:Over-temperature fault
Possible causes
<ol style="list-style-type: none"> 1. The ambient temperature exceeds the working temperature specification. 2. The input voltage ofAc power supply is too high. 3.Internal charger failure.
terms ofsettlement
<ol style="list-style-type: none"> 1.Install the charging pile in an environment with low ambient temperature. 2. If the problem cannot be solved, please do not use the charging pile. Please contact your local company representative or a qualified electrical contractor.
Fault display:Device overvoltage
Possible causes
<ol style="list-style-type: none"> 1.The input voltage ofAc power supply is too high 2.Internal charger failure
terms of settlement
<ol style="list-style-type: none"> 1. Check the input voltage. 2. If the problem cannot be solved, please do not use the charging pile. Please contact Local company representative or qualified electrical contractor.
Fault display:Device undervoltage
Possible causes
<ol style="list-style-type: none"> 1. Theinput voltage of the Ac power supplyis too low. 2.Internal charger failure.
terms of settlement
<ol style="list-style-type: none"> 1. Check the input voltage. 2. If the problem cannot be solved, please do not use the charging pile. Please contact Local company representative or qualified electrical contractor.
Fault display:Meter unconnected!
Possible causes
<ol style="list-style-type: none"> 1. Metering module failureterms of settlement Please contact your local company representative or a qualified electrical contractor

Fault display:Emergency fault
Possible causes
1.The emergency stop button is pressed 2.The emergency stop button is damaged
terms of settlement
1.Press the resume emergency stop button again 2.Replace the emergency stop button
Fault display:RFID unconnected
Possible causes
1. Card reader failure
terms of settlement
1.Whether the power supplyis restored after restart 2. Replace the card reader
Fault display:Grounding fault
Possible causes
1. Ground fault
terms of settlement
1.Check whether the ground wire is reliably connected
Fault display:OverCurrent fault
Possible causes
1.Overload protection
terms of settlement
1.Please contact the manufacturer's local representative or a qualified electrical contractor

Fault indicator prompt

Working state	gules	green	blue
free	/	Stays On	/
Insert a gun	/	/	Flashing
recharge	/	/	Stays On
Metering communication error	Flash for 1	/	/
Under-voltage alarm	Flash for 2	/	/
Over voltage alarm	Flash for 3	/	/
Ground fault	Flash for 4	/	/
Over current protection	Flash for 5	/	/
Permanent overcurrent protection	Flash for 6	/	/
Leakage protection	Flash for 7	/	/
Over temperature protection	Flash for 8	/	/
Emergency stop button	Flash for 9	/	/
RFID failure	Flash for 10	/	/
Relay failure	Flash for 12	/	/
Relay failure	Flash for 13	/	/
Memory failure	Flash for 14	/	/
Clock exception	Flash for 15	/	/

Maintenance

The power distribution system

The AC input of the charger is led out from the distribution box of the power grid, and the power shall be cut off before connection. The power on and power off steps are as follows:

1. Check whether the power supply voltage is normal.
2. Closing: first close the main switch of the distribution box, and then close the branch circuit switch in turn.
3. A switch: pull each branch circuit switch first, and then pull the main switch of the distribution box. Pull the main brake in case of emergency.

Line system

Regularly check the input and output cables of the charger:

1. Weekly line inspection: check the cable for heating and damage.
2. Monthly line inspection: check whether the cable is heated or damaged, whether the cable is stressed by external tension, and whether the cable is fixed firmly.
3. Annual routine inspection: check whether the connection between the cable and the switch is tight, whether the grounding is reliable, whether the cable is heated and damaged, whether the insulation resistance of the cable meets the requirements, whether the sealing measures of the cable charger are intact, and whether the holes are sealed tightly.

Circuit components

The following inspections shall be carried out by professional maintenance personnel:

1. Weekly routine inspection: whether the mechanical lock buckle of the charging gun is damaged and whether the connection is abnormal.
2. Quarterly routine inspection: whether there is ignition burning at the connection of charging gun wire core. If there is any abnormality, replace the parts in time.
3. Annual routine check: use brushes and vacuum cleaners to remove dust from the box. When cleaning, be careful to inhale dust into the components by mistake, resulting in short circuit. Check all components of the box and replace abnormal parts in time.

Equipment appearance

1. Check the appearance of the charger monthly to see if there are stains, and clean the charger shell.

Wire Connection instructions

Remove the top cover for wiring

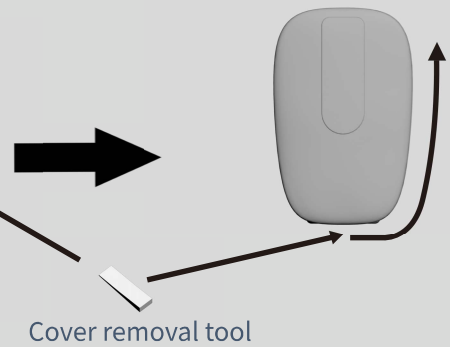
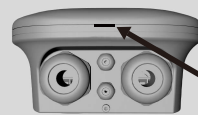
Step 1

Unscrew the anti-theft screw



Step 2

Use the tool to Follow the arrow trajectory to open the top cover



Step 3

Remove the top cover



Step 4

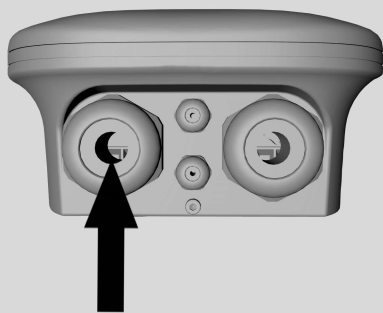
Remove the inner cover



Remove the top cover for wiring(single-phase)

Step 1

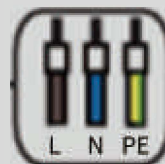
Open the wire entry hole
Put into the cable



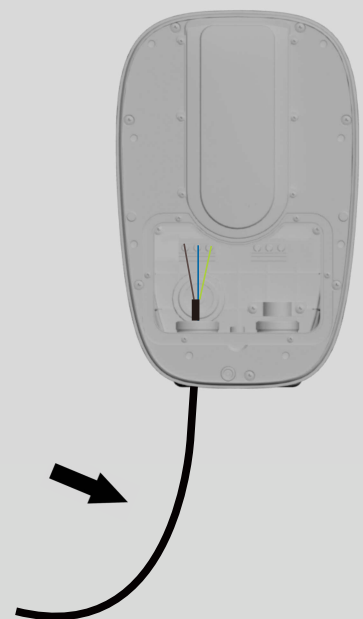
Input wire hole

Step 2

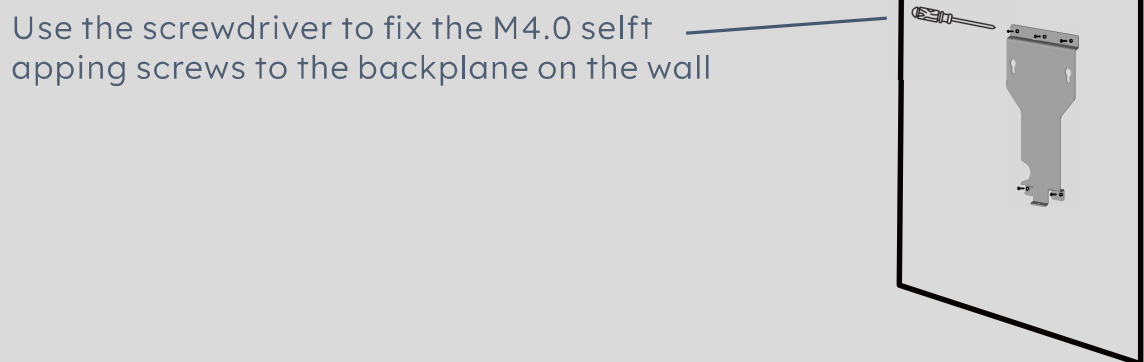
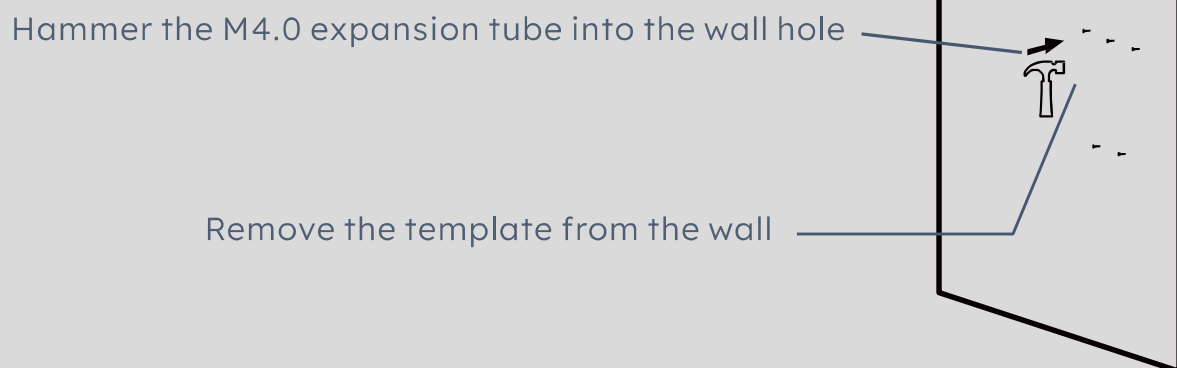
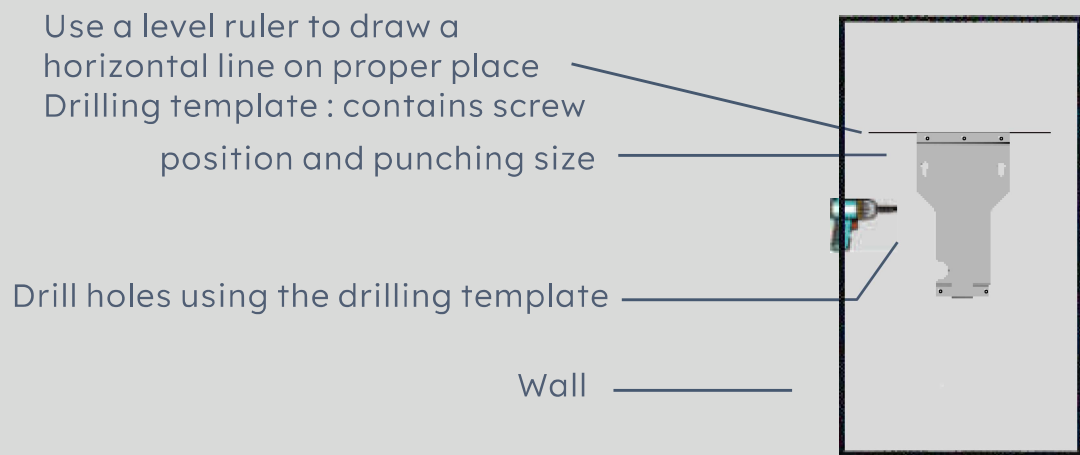
Connect the input
cable to the mainboard



Input Cable



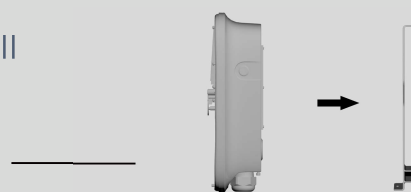
Installation steps



Install the charging pile on the backplane on the wall

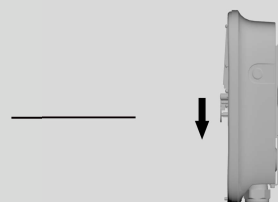
Step 1

Align the holes and hang the charging pile on the back panel

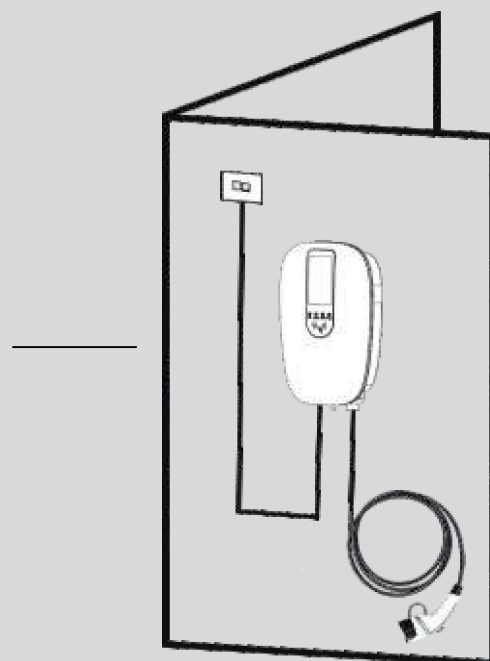


Step 2

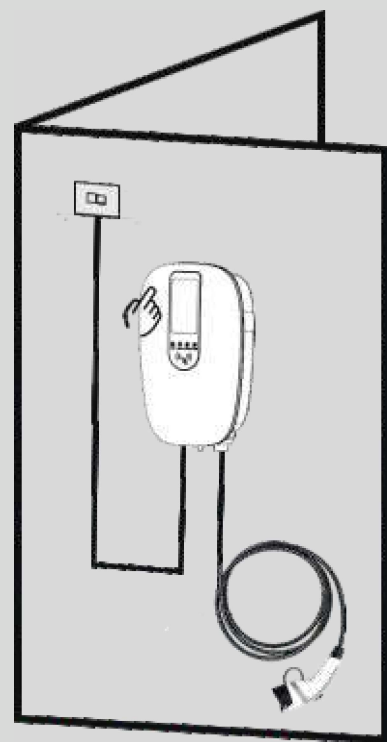
Move down and make it fixed



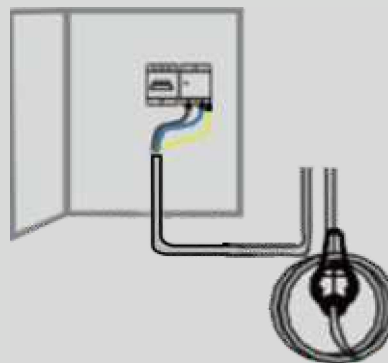
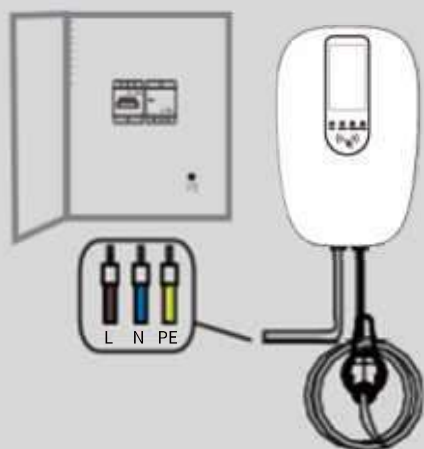
Lock the anti-theft screw on the bottom of the charging pile, and place the plug seat in an appropriate place.



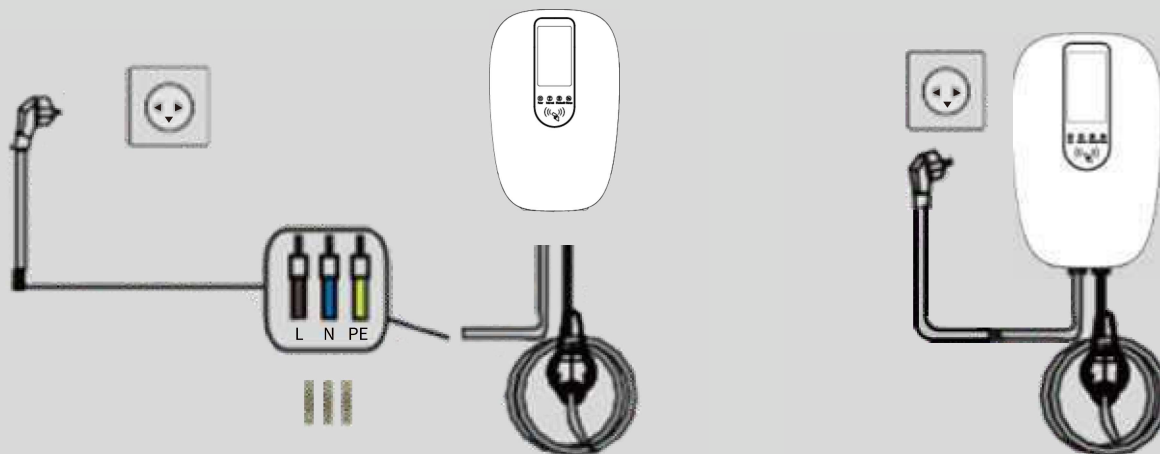
After completing the above steps, the surface _____
protective film of the charging pile can be torn off



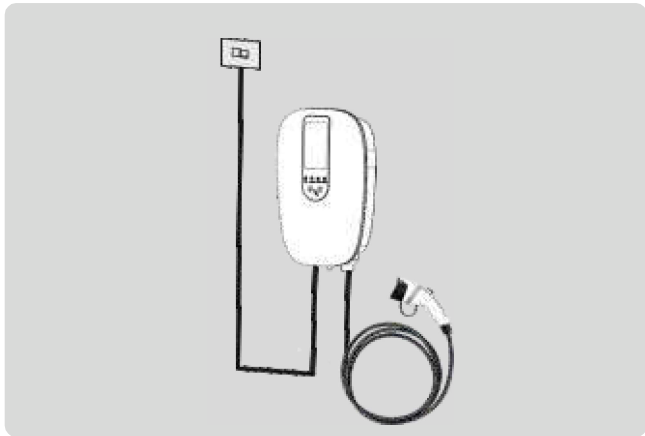
If the power distribution box is connected, connect the L, N, and PE ends of the
input line the L, N, and PE ends of the circuit breaker respectively



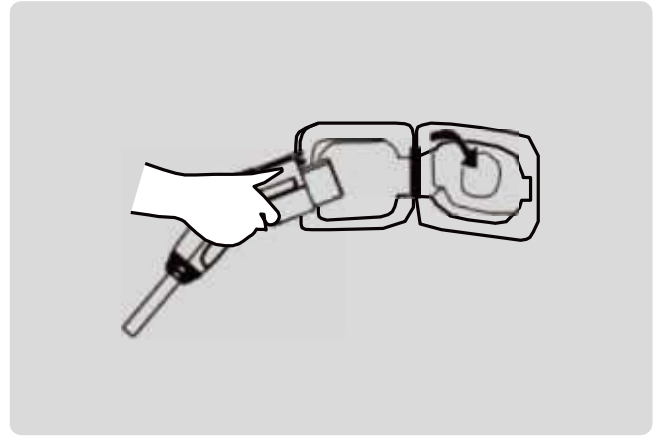
If the power distribution box is connected, connect the L, N, and PE ends of the input line with the L, N, and PE ends of the circuit breaker respectively



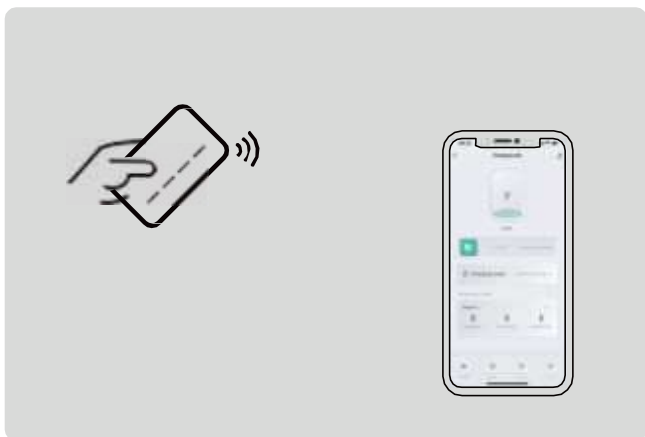
Usage steps



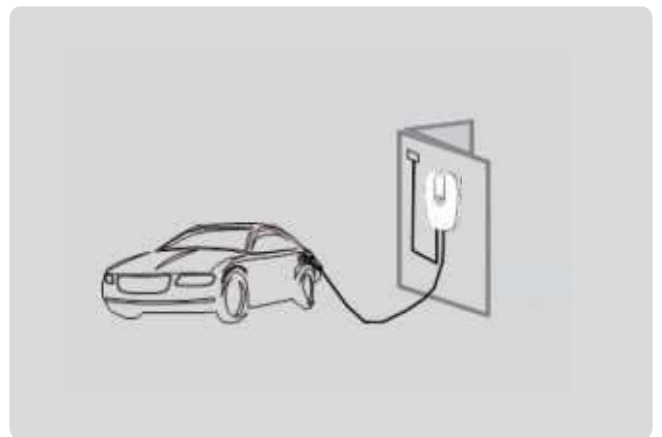
1.Insert:the charging input to the power supply.



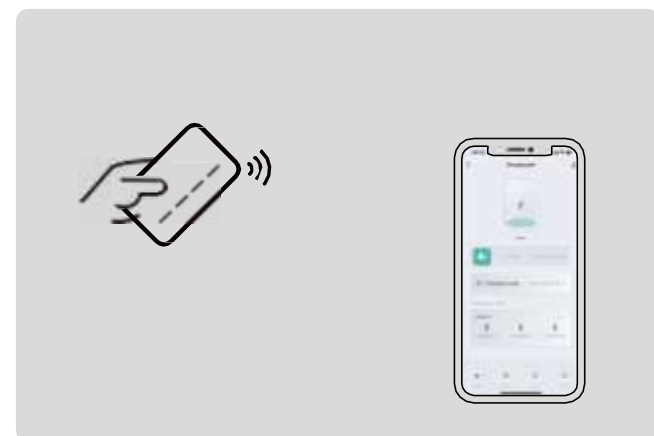
2.Insert the charging plug to the charging port.



3.Start by swiping card/APP.



4.E-cars are in normal charging state.



5.Finish by swiping card/APP.



6.Remove the charging pile and put it back in place.

Steps for adding APP device

Download method:

For IOS: Search Smart Life in the Apple Store to download and install it.

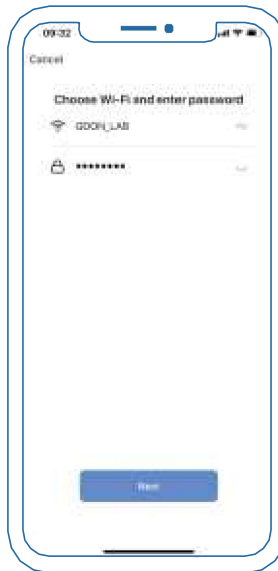
For Android: Search Smart Life in the Google Store to download and install it.



Step 1

Add Device

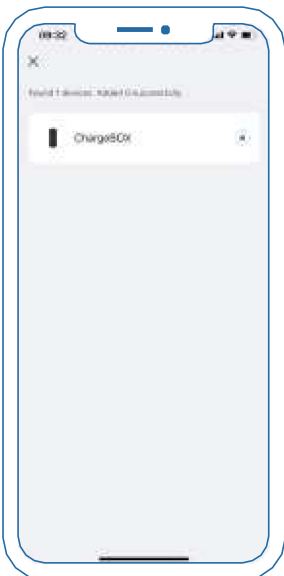
Click "Add Device"



Step 2

Connect the WIFI

When adding a device for the first time, connect the device and mobile phone under the same WIFI.



Step 3

Loading

Wait until the device is loaded.



Step 4

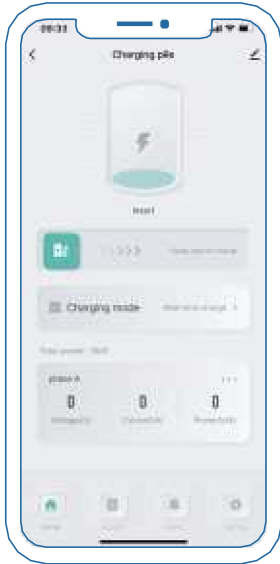
Loading completed

After loading, click Add to enter the charging interface.

Tips:

Only when the device is added for the first time, the device and mobile phone need to be connected under the same WIFI. After the device is loaded, you only need to turn on Bluetooth to connect the device again.

Charging instructions on APP



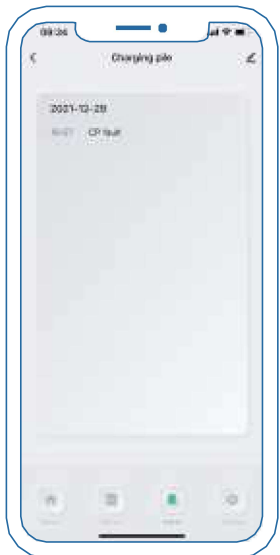
Instructions 1: Swipe right to charge

Insert the charging
plugin to the charging
port, Right Swipe
"Swipr right to charge"



Instructions 2: Charging record

Users' charging history
can be viewed in the APP



Instructions 3: Alarm

When the device fails,
a warning is issued
and a record is left



Instructions 4: Charging completed

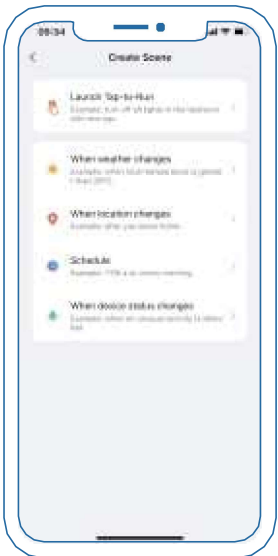
After charging, click to
turn off the power

Steps for APP appointment time



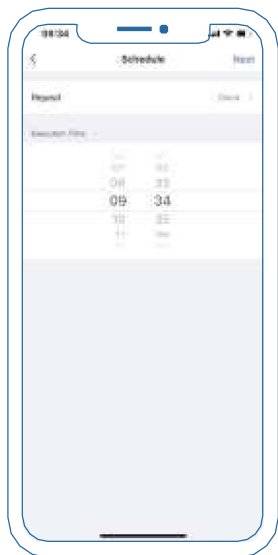
Step1: Create Scene

Click the scene TAB,
and then click Create
Smart Scene



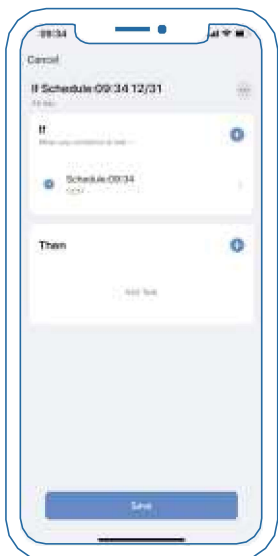
Step2: Schedule

Click Schedule to select
an appointment time



Step3: Execution Time

Slide up and down to
set the length of time,
and click Next
when finished



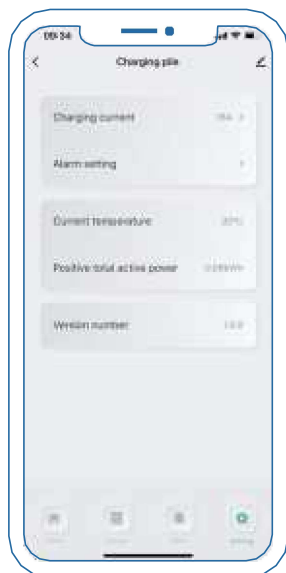
Step4: Save

Click Save to open
booking charging

Sichuan Green Science & Technology Co. Ltd

Website: www.cngreenscience.com
Contact: grsc@cngreenscience.com

APP current switch step



Step1: Setting

Click on the
Settings TAB



Step2: Charging current

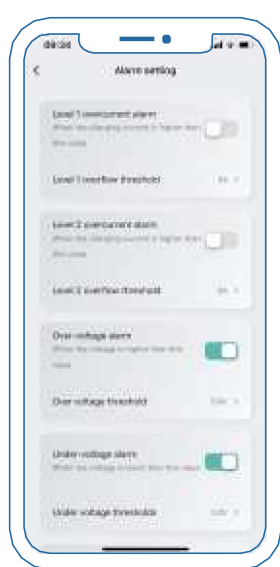
Click on Charging current
to switch 7-48A

Alarm Parameter Settings



Step1: Setting

Click on the
Settings TAB



Step2: Alarm setting

Set the overcurrent,
over- voltage & undervoltage
thresholds