50A Single-Phase AC Charging Pile

User's 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.

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.

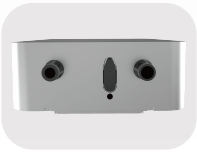
version：V2.0

Revision date：2023-3

Product overview

Appearance of charging pile

Emergency stop



Ethernet

Indicator light / Swipe card

Product function

1. It has card swiping start and remote stop start, and is equipped with rechargeable IC card.

2. Reservation charging function, which can be charged regularly according to user needs, and it will automatically end when fully charged.

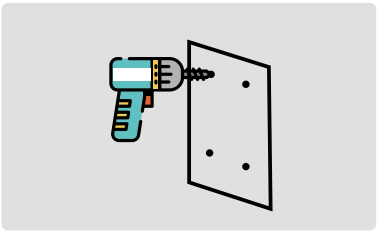
3.Equipped with display screen, real-time display of charging information estimation Fill time.

4. With overload protection, overvoltage protection, undervoltage protection, short circuit protection, overtemperature protection, emergency stop and other functions.

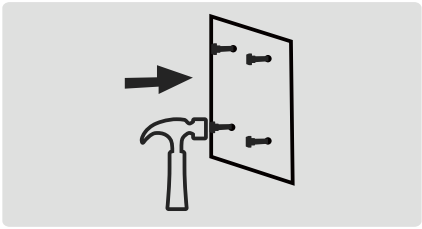
Basic parameters

parameter	
Operating voltage	90-265V
Frequency	60HZ
Rated power	11kW
IP Rating	IP65
Use environment	
Operating temperature	-25℃—+45℃
Operating 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	355*250*93mm
Installation mode	Column mounted (floor mounted) or wall mounted Install optional

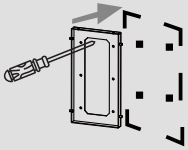
Installation steps



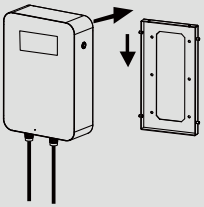
1. Drill holes using the drilling template



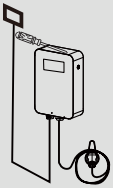
2.Hammer the M6.0 expansion tube intothe wall hole



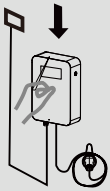
3. Use the screwdriver to fix the M4.0 self tapping screwsto the backplane on the wall



4. Install the charging pile on the backplane on the wall



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



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

Installation Instructions

Specification for electrical box at input:

· The power distribution box at the input end of each AC charging pile shall beequippedwith leakage air switch with rated current no less than 40A.

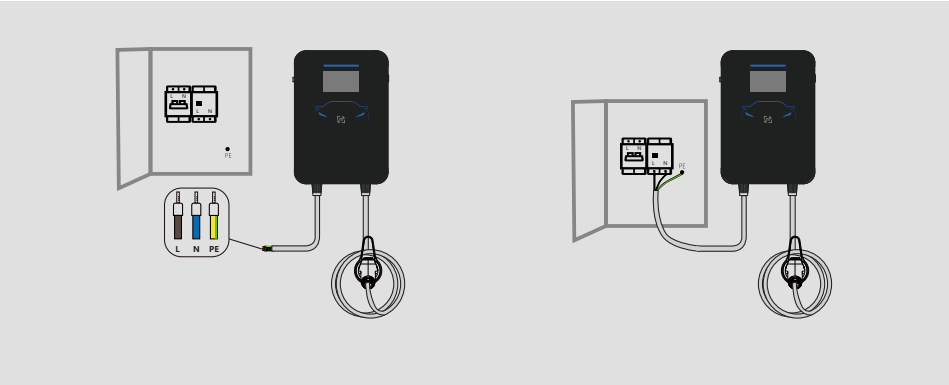
· Select an adaptive molded case circuit breaker according to the current of the ac charging pile (32A required for a single ac pile).

· Power cables for ac charging piles (cables between air breakers and ac piles) must meet the rated capacity of at least 32 a. single-phase power is recommended. The recommended voltage range is AC230V±10% .

·50Hz power supply, make use of 6mm² copper core cable; When installing acchargingpiles, ensure that the PE cables are properly grounded.

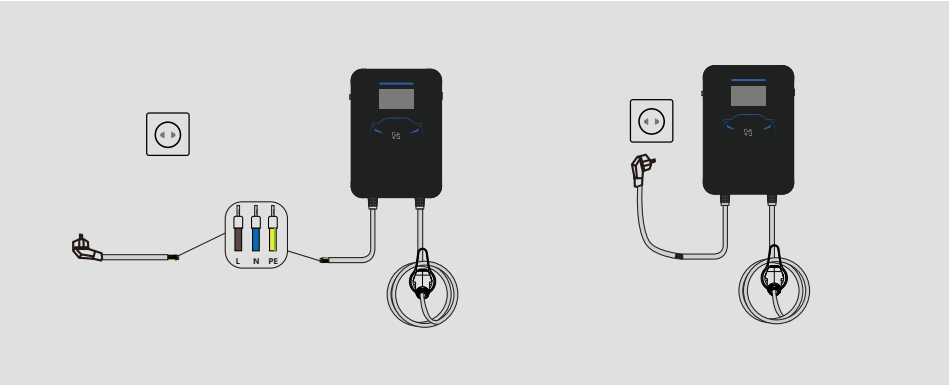
Wire Connection Instructions

Method 1:



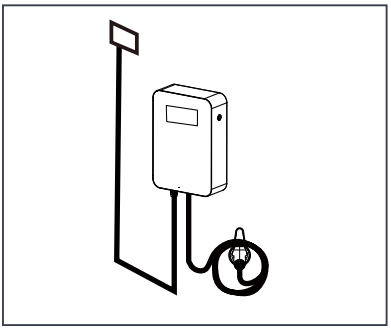
If a power distribution box is used, the L, N, and PE ends of the input cable of the plug correspond to the L, N, and PE ends of the circuit breaker respectively.

Method 2:

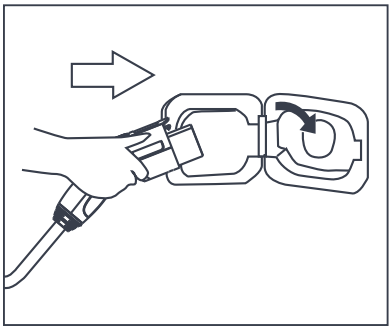


If the joint is connected, the two ends need to be connected Note that L, N, PE correspond to each other Crimping pliers ensure good contact at extrusion joint.

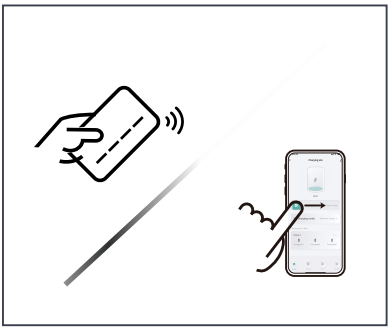
Charging instructions



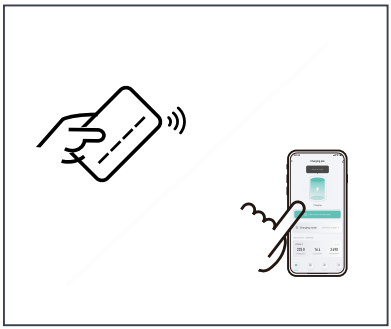
1.Make sure the charging pile is pro perly connected to the power supply



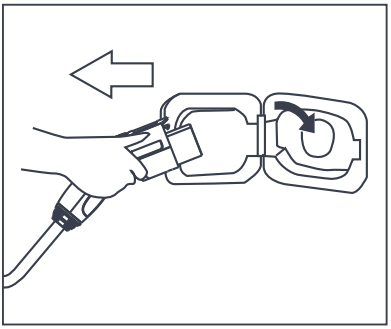
2.Put the charging plug Connect the on-board charging interface



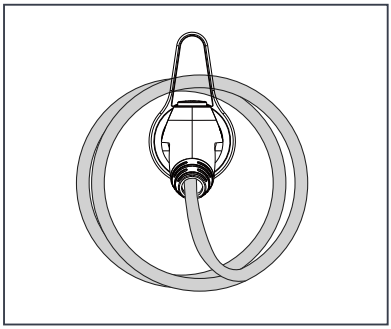
3.Use swipe card or APP to start.



4.Click the APP or swipe the card to end



5.Unplug the charging plug



6.Unplug the charging plug put it back

Troubleshooting

The fault name	Symptom Possible causes
AC overvoltage	AC input voltage too high
Rule out advice	
1. If the voltage exceeds 265Vac 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 areais overvoltage for a long time, adjust the input overvoltage protection point to 265Vac 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 ischronically undervoltage (175Vac), the protection point of input undervoltage can be adjusted to 90 Vac at least by configuring software.	

The fault name	Symptom Possible causes
AC overcurrent	Excessive AC input current
Rule out advice	
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
Overtemperature	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. 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 plug	Charging plug CC/CP Connection exception
Rule out advice	
1. Check whether the charging plug is connected correctly and reliably.2. If the fault persists, contact us.	

Fault indicator prompt

Operating state	gules	green	blue
standby	/	Stays On	/
Insert a plug	/	/	Stays On
recharge	/	/	Flashing
Metering communication error	Flash for 1	/	/
Under-voltage alarm	Flash for 2	/	/
Overvoltage 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 11	/	/
plug lock fault	Flash for 12	/	/
Memory failure	Flash for 13	/	/
Clock exception	Flash for 14	/	/

wait for
Indicator light: green, always on

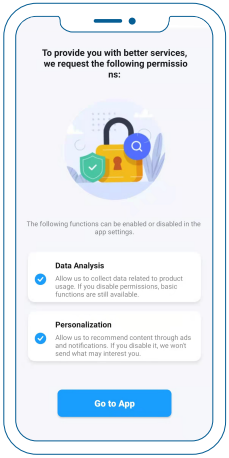
Charging / charging completed
Indicator light: Blue (flashing / always on)

The fault
Indicator: blinking red

Fault code

fault display	Possible causes
Over-temperature fault	1.The ambient temperature exceeds the operating temperature specification
	2.AC power input voltage too high
	3.Internal charger failure
Device overvoltage	1.AC power input voltage too high
	2.Internal charger failure
Device undervoltage	1.AC power input voltage too low
	2.Internal charger failure
Meter unconnected!	1.Metering module failure
Emergency fault	1.Emergency stop button pressed
	2.Emergency stop button damaged
Electric leakage fault	1.Residual current monitoring sensor failure
	2.Residual current leakage occurs
RFID unconnected	1.Card reader failure
Grounding fault	1.Ground Fault
OverCurrent fault	1.Overload protection

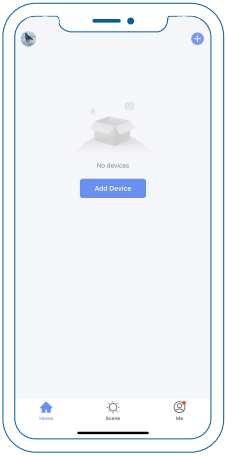
Add equipment



Enter the APP

Step 1:

Click to enter APP

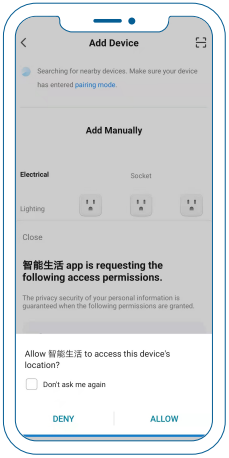


Add equipment

Step 2:

Top right corner + open point

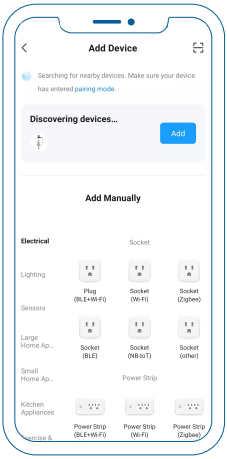
Select Add device



Access permissions

Step 3:

Need to allow app access to mobile phone

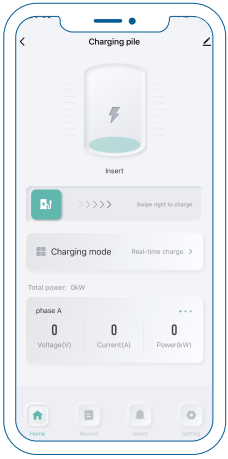


Search equipment

Step 4:

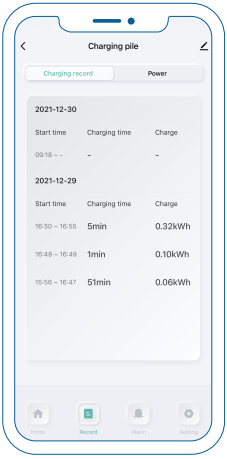
The first connection to the device requires the mobile phone and the device to match under the same WiFi condition

App function



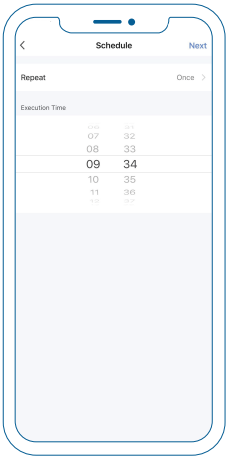
Charging

Slide right to the bottom and switch on charging



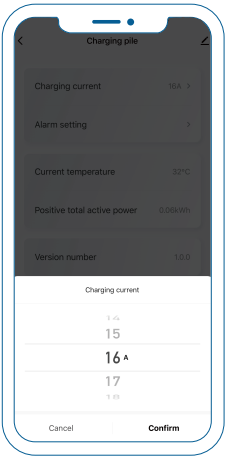
record of charging

View historical charging records



Adjust the time

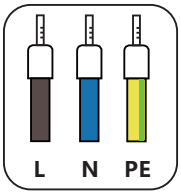
Selecting an appointment time



Set power

Slide up and down to set charging power

PRODUCT CHARACTERISTIC



1-PHASE

Temperature Monitoring
Monitor the Operating temperature of the charger at all times, Once the safe temperature is exceeded,the charger will stop Operating immediately,and the charging system can be auto-resumed when the temperature returns to normal.

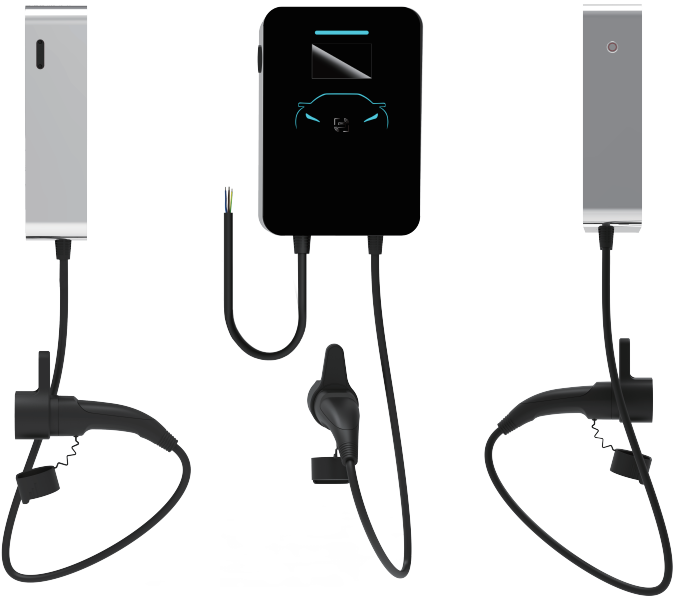
Automatically Repair Faults
Smart chip can automatically repair common charging mistakes to ensure stable opera tion of the production.

Complete Certification
The product has passed all relevant certifications,ensuring that the product can be sold and used with confidence.

Stand
The product has a supporting stand,which is easy for installation and outdoor use without the walls.

APP control
All the charging parameters could be set and showed on the APP. It will be convenient for operation.Also the charging system will be upgrade through APP.

PRODUCT PICTURE



Appendix

- SAE J1772 《 Society of AutomotiveEngineers Recommended Practice forElectric Vehicle Conductive ChargeCouplers 》
- UL 2594 《 STANDARD FOR SAFETYElectric Vehicle Supply Equipment》
- UL 2251 《 Standard for Plugs ,Receptacles , and Couplers for Electric Vehicles 》UL 2231-1 《 Standard for personnel Protection Systems for Electric Vehicle(EV) Supply Circuits - Part1:General Requirements 》
- UL 2231-2 《 Standard Personnel Protection Systems for Electric Vehicle(EV)Supply Circuits,Part2:Particular Requirements for Protection Devices for Use In Charging Systems》