



AC EV CHARGER

USER MANUAL



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Symbol Meaning

Symbol	Meaning
 A black icon of a trash bin with a horizontal line through it, indicating that the product should not be disposed of in regular household waste.	The EU Directive 2012/19/EU regulates the collection and recycling of waste electrical and electronic equipment within the European Union. All products covered by this directive are marked with the symbol of the crossed-out wheeled bin and must not be disposed of with general household waste.
 A yellow triangle containing a black lightning bolt, a standard warning symbol for electrical hazard.	Warning sign: indicates danger. Pay attention to the personal injury that may be caused by operation procedure or incorrect operation and take actions carefully.
 The CE mark, consisting of the letters 'CE' in a black square.	"CE" mark: on the product, instruction manual or package, indicating that the product has passed the test for safety certification.

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

Product Overview

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Basic Parameters

Model	ARR-W03C-S	ARR-W07C-S
Parameters		
Working voltage	AC230V 1P	AC230V 1P
Rated power	3.5 kW	7 kW
Frequency	50/60Hz	50/60Hz
IP Code	IP65	IP65
Use environment		
Working temperature	-30°C ~ +50°C	-30°C ~ +50°C
Working humidity	5%~95%HR	5%~95%HR
The cooling way	Natural air cooling	Natural air cooling
Display function		
Display parameters	Charge voltage, charge current, charge power,soc.fault code.	Charge voltage, charge current, charge power,soc.fault code.
Physical size		
Wallbox size	320*210*120mm	320*210*120mm
Installation mode	Wall-mounted or Floor standing	Wall-mounted or Floor standing

Model	ARR-W11C-S	ARR-W22C-S
Parameters		
Working voltage	AC400V 3P	AC400V 3P
Rated power	11kW	22kW
Frequency	50/60Hz	50/60Hz
IP Code	IP65	IP65
Use environment		
Working temperature	-30°C ~ +50°C	-30°C ~ +50°C
Working humidity	5%~95%HR	5%~95%HR
The cooling way	Natural air cooling	Natural air cooling
Display function		
Display parameters	Charge voltage, charge current, charge power,soc.fault code.	Charge voltage, charge current, charge power,soc.fault code.
Physical size		
Wallbox size	320*210*120mm	320*210*120mm
Installation mode	Wall-mounted or Floor standing	Wall-mounted or Floor standing

Operation and Safety Notes

Electrical hazard
Only trained, qualified and authorized electricians 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 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 Do not open the casing and repair charger without authorization, only by the manufacturer. Do not modify the charger without authorization. Do not remove safety symbols, warning tips, nameplates, signs or pipeline marks. When installing, disconnect the power supply before connecting the external power cord to the charger input. No extension cable shall be used when connecting the electric vehicle to the charger Make sure that there is no dirt or water on contacts of vehicle plug 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. Avoid falling of the charger from a high place or impact from strong mechanical force otherwise, electrical safety of the device can not be assured, 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 parts 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

Fault	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 area is overvoltage for a long time, adjust the input overvoltage protection point to 265Vac by configuring software.	
Fault	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 (175Vac), the protection point of input undervoltage can be adjusted to 90 Vac at least by configuring software.	
Fault	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, please contact us.	
Fault	Possible causes
Overtemperature	The temperature in the AC pile is too high
Rule out advice	
1. Check the AC pile installation environment.	
2. Check whether there are other heating devices nearby.	
3. Ensure that the ambient temperature is below 50 °C.	

Fault	Possible causes
Leakage current exceeds standard	High leakage current to the ground
Rule out advice	
<ol style="list-style-type: none"> 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, please contact us. 	
Fault	Possible causes
Ground fault	The input/output is improperly grounded or the input L/N is inversely connected
Rule out advice	
<ol style="list-style-type: none"> 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. 	
Fault	Possible causes
Abnormal communication(Internet mode)	Poor background communication of AC pile
Rule out advice	
<ol style="list-style-type: none"> 1. Check whether the network cable is properly connected. 2. Check whether charging piles are correctly configured in the background. 	
Fault	Possible causes
Abnormal connection of charging gun	Charging gun CC/CP Connection exception
Rule out advice	
<ol style="list-style-type: none"> 1. Check whether the charging gun is connected correctly and reliably. 2. If the fault persists, please contact us. 	

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 of AC power supply is too high 3. Internal charger failure
Terms of settlement
<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 of AC 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. The input voltage of the AC power supply is 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 Indicator Prompt

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 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 supply is 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

Working status	Red	Green	Blue
Free	/	Stays On	/
Insert a gun	/	/	Flashing
Recharge	/	/	Stays On
Metering communication error	Flash for 1 times	/	/
Under-voltage alarm	Flash for 2 times	/	/
Overvoltage alarm	Flash for 3 times	/	/
Ground fault	Flash for 4 times	/	/
Over current alarm	Flash for 5 times	/	/
Permanent overcurrent alarm	Flash for 6 times	/	/
Leakage alarm	Flash for 7 times	/	/
Over temperature alarm	Flash for 8 times	/	/
Emergency stop button	Flash for 9 times	/	/
RFID failure	Flash for 10 times	/	/
Relay failure	Flash for 11 times	/	/
Relay failure	Flash for 12 times	/	/
Memory failure	Flash for 13 times	/	/
Clock exception	Flash for 14 times	/	/

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. Firstly turn off the main switch of the distribution box, and then turn off the branch circuit switch in turn.
3. Pull each branch circuit switch first, and then pull the main switch off the distribution box. Pull the main brake in case of emergency.

Wiring system

Regularly check the input and output cables of the charger:

1. Weekly inspection: check the cable for heating and damage.
2. Monthly 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 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 cable seal is intact, and whether the holes are sealed tightly.

Circuit components

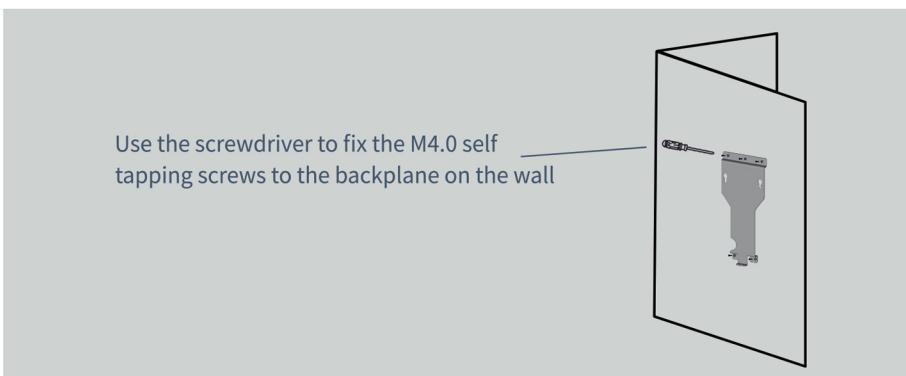
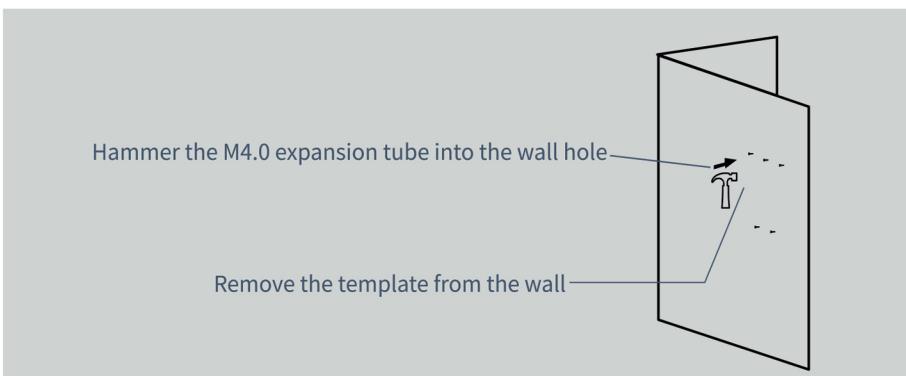
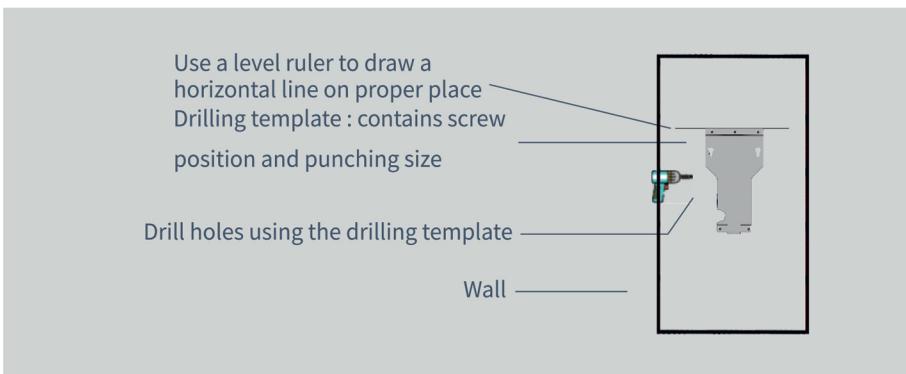
The following inspections shall be carried out by professional maintenance personnel:

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.

Installation Steps



Remove covers for wiring

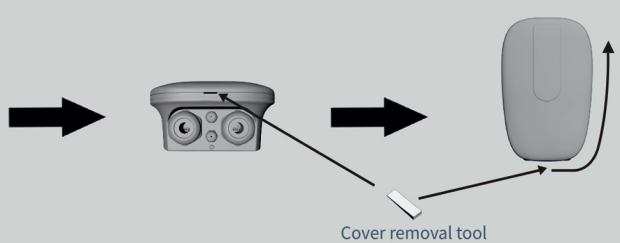
Step 1

Unscrew the anti-theft screw



Step 2

Use the tool to open the top cover



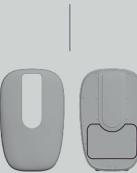
Step 3

Remove the top cover



Step 4

Remove the inner cover



Hang the wallbox

Step 1

Align the holes and hang the wallbox on the back panel



Step 2

Move down and make it fixed



Wiring for 11kW and 22kW wallbox

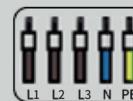
Step 1

Open the wire entry hole and insert the input cable



Step 2

Connect the input cable to the mainboard



Wire entry hole



Input cable

Wiring for 3kW and 7kW wallbox

Step 1
Open the wire entry hole
and insert the input cable



Wire entry hole

Step 2
Connect the input
cable to the mainboard

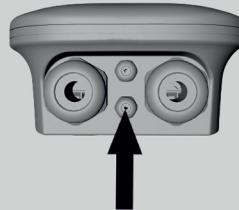


Input cable



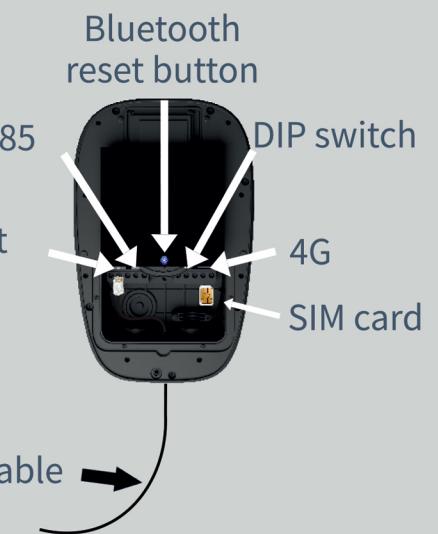
Connect 4G and Ethernet

Step 1
Open the wire entry hole
and put into the cable



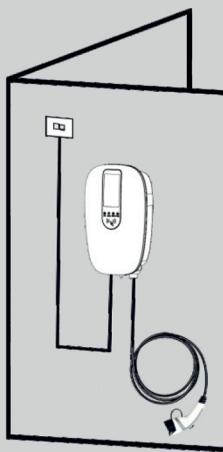
Wire entry hole

Step 2
Connect Ethernet cable
to the LAN port
Insert the SIM card to
the 4G port

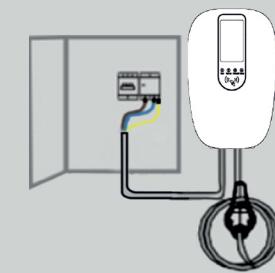
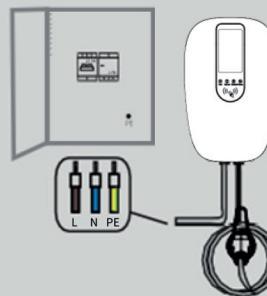


Wiring Instructions

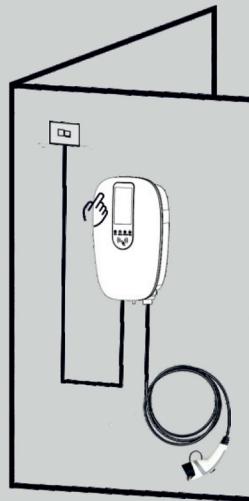
Tighten the anti-theft screw on the bottom of the wallbox and place the plug holder in an appropriate place



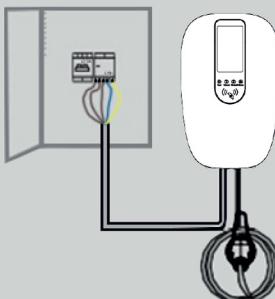
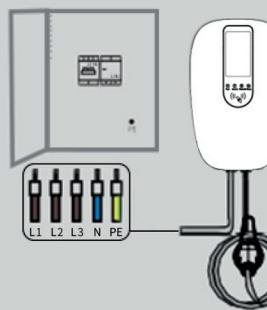
If the power distribution box is connected, connect the L, N, and PE ends of the input line with the L, N, and PE ends of the circuit breaker respectively



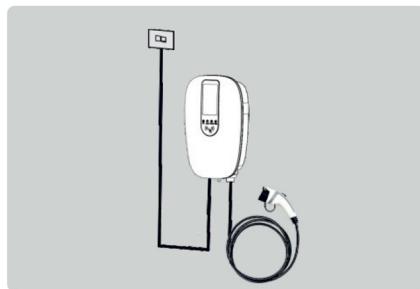
After completing the above steps, the surface protective film of the wallbox can be torn off



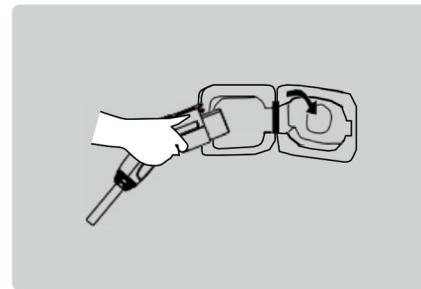
If the power distribution box is connected, connect the L, N, and PE ends of the input line with the L, N, and PE ends of the circuit breaker respectively



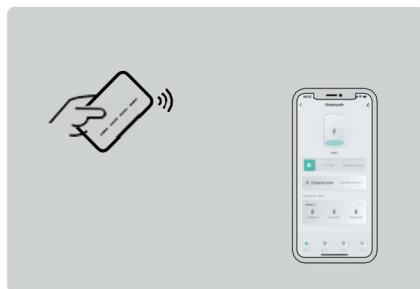
Usage Steps



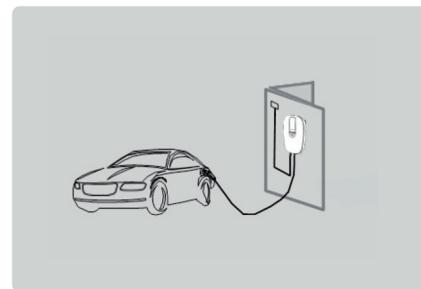
1. Insert the input cable to the power supply



2. Insert the charging plug to the charging port



3. Start by swiping card/APP



4. E-cars are in normal charging status



5. Finish by swiping card/APP



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

Steps for Adding Device on APP

Download APP

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.



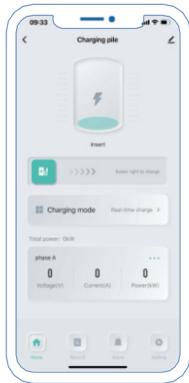
Step 4 Loading completed

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



Instruction 1: Swipe right to charge

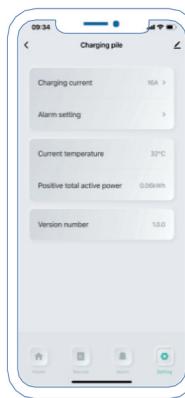
Insert the charging
plug into the charging
port, Right Swipe
"Swipe right to charge"



Instruction 2: Charging record

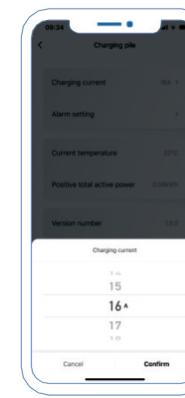
Users' charging history
can be viewed in the APP

Steps for Adjusting Current on APP



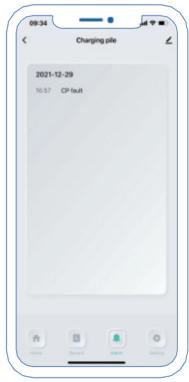
Step1: Setting

Click on the
Settings TAB



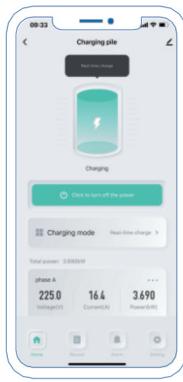
Step2: Charging current

Click on Charging current
to adjust current from 0~
32A



Instruction 3: Alarm

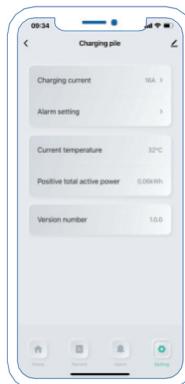
When the device fails,
a warning is issued
and a record is left



Instruction 4: Charging completed

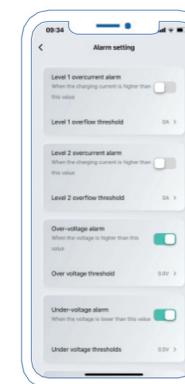
After charging, click to
turn off the power

Alarm Parameter Settings



Step1: Setting

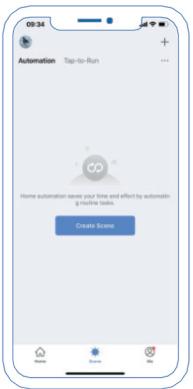
Click on the
Settings TAB



Step2: Alarm setting

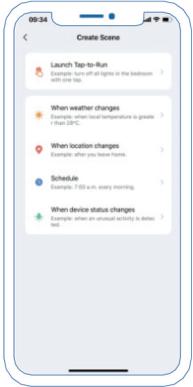
Set the overcurrent,
over- voltage & undervoltage
thresholds

Steps for Charging Appointment on APP



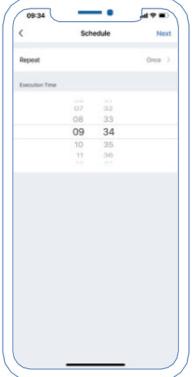
Step1: Create Scene

Click the scene TAB,
and then click Create
Smart Scene



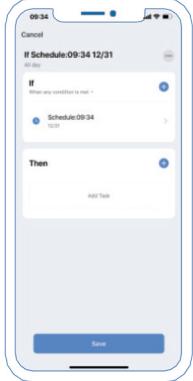
Step2: Schedule

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 start
charging appointment