

# Wallbox EV Charger

## User Manual

Power: □7kW □11kW □22kW

Current: □8-32A □8-16A



Temperature  
Protection



Auto  
Repair



Efficient  
Charging



Protection  
Level IP54



RCD



APP  
Control



Under Voltage  
Protection



Over Voltage  
Protection



Short Circuit  
Protection



Earth Leakage  
Protection





Lightning  
Protection



Over Load  
Protection

# Symbol Meaning

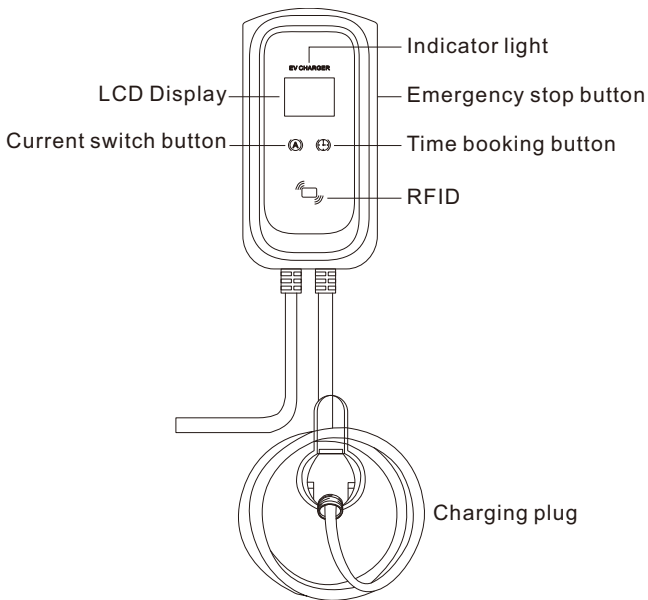
Symbol	Meaning
	"Non-recyclable" mark: located on the product, instruction manual or package, indicating that electrical and electronic equipment and its accessories should be treated separately from ordinary household waste. When scrapped, it should be treated as industrial waste, otherwise it may cause 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: 2022-05

# Product Overview



Appearance of Wallbox AC Charger

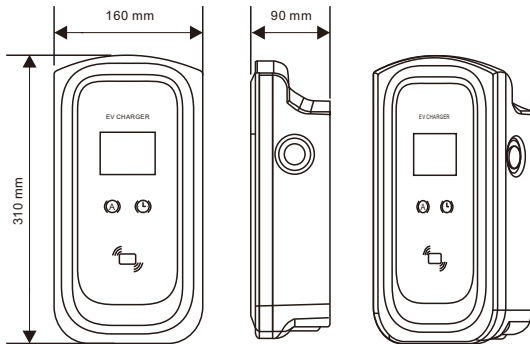
## Product Overview

- This product is a AC charging station, mainly used for AC charging of electric vehicles. The product is composed of charging station body, wall-hanging backboard, floor-to-ground column (optional), etc., with charging protection, charging by swiping card, current switch time booking and other functions. This product adopts industrial design principle, easy to install and easy to use.
- Exterior: Exquisite and light, a variety of color options, suitable for different application scenarios.
- Protection: level of protection IP54(waterproof and dust-proof), can withstand wind, rain and sun exposure.
- Operation: The operation is simple and convenient, namely plug and play.
- Safety: multiple protection, safety upgrade, high quality materials, fireproof, waterproof and dust-proof.
- Commonality: Small body, big energy, compatible with 99% of the new energy vehicles.
- Quality: Pure copper wire without oxidation, comply with inspection standard, flame retardant impact resistance.
- The performance of the charger meets the requirements 《IEC 62196-2-2011 Plugs, socket-outlets, vehicle connectors and vehicle inlets-Conductive charging of electric vehicles Part 2》 relevant regulation.
- According to 《IEC 61851-1-2012 Electric Vehicle Conductive Charging System Part 1》 relevant regulation, and with reference to the "Electric Vehicle Charging Facilities Typical Design" part of the function of the design. The products fully meets the national and industrial standards for electric vehicles.

## Dimensions

Size: 310x160x90

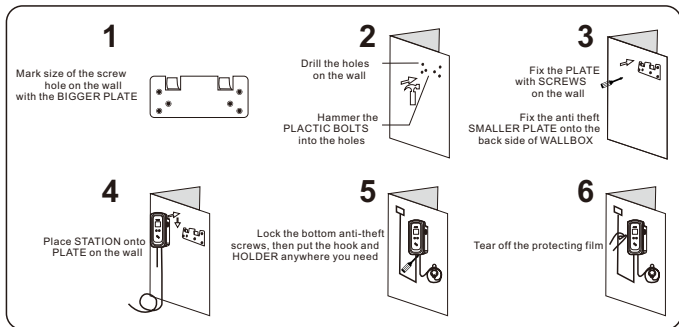
Measurement Unit: mm



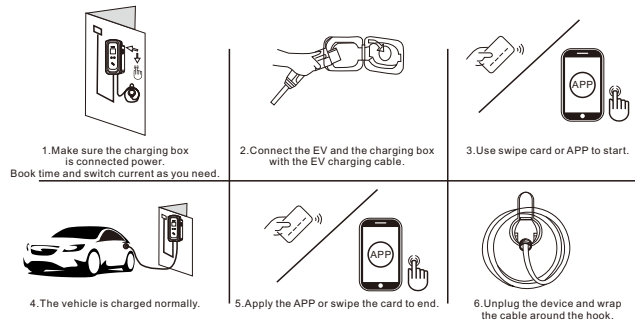
## Product Parameter

Charging Device	Rated Power	7kW	11kW	22kW
	User Interface	LED indicator、Display screen、Current switch button、Time booking button		
	Cable routing	Bottom inlet wiring, Bottom outlet wiring		
	Dimension	310x160x90mm		
	Input voltage	1 phase; 200-240V	3 phase; 380-440V	3 phase; 380-440V
	Input frequency	50/60Hz		
	Output voltage	200-240V	380-440V	380-440V
	Output current	8-32A	8-16A	8-32A
	Charging Wire length	3/5/8/10m		
Protection Design	Over-current protection value	$\geq 110\%$		
	Over-voltage protection value	265Vac for 1 phase; 460Vac for 3 phase		
	Under-voltage protection value	175Vac for 1 phase; 310Vac for 3 phase		
	Over-temperature protection value	80°C		
	Electric leakage protection value	30mA, type A/type B opt		
Function Design	Charging model	Automatic charging, card swipe, time booking, APP control		
	Communication Interface	Bluetooth/4G/Ethernet/WIFI (optional)		
Environmental indicators	Work temperature	-30°C~50°C		
	Work humidity	~5%~95% non-condensation		
	Work altitude	< 2000m		
	Protection Level	IP54		
	Cooling Model	Natural cooling		
	MTBF	50,000 hours		

# Installation



# Steps for Usage

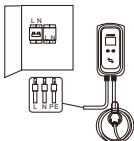


## NOTE:

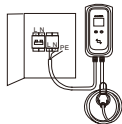
1. After the vehicle is fully charged, the device will automatically Stop charging.
2. Please read the instructions carefully before use.
3. Book time and switch current before plug into vehicle. The time-booking button, and current switch button is invalid when in charging.

## Steps for Power Wiring (1 phase; 7kW)

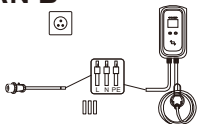
### PLAN A



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.



### PLAN B

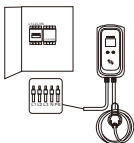


If the connection connector (the figure is just a diagram, customers can choose the appropriate plug according to their needs), then the heat shrinkable waterproof connector is needed to connect the two ends, pay attention to L, N, PE corresponding connection, and use the crimping tool to squeeze the connection to ensure good contact.

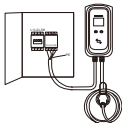


## Steps for Power Wiring (3 phase; 11/22kW)

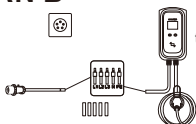
### PLAN A



If a power distribution box is used, the L1, L2, L3, N, and PE ends of the input cable of the plug correspond to the L1, L2, L3, N, and PE ends of the circuit breaker respectively.



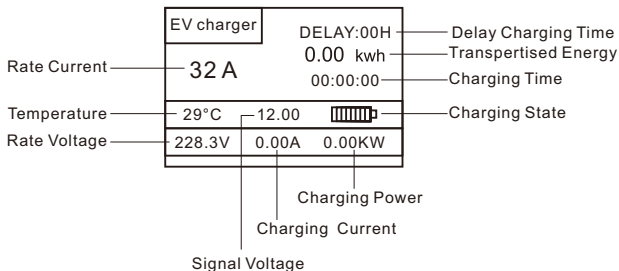
### PLAN B



If the connection connector (the figure is just a diagram, customers can choose the appropriate plug according to their needs), then the heat shrinkable waterproof connector is needed to connect the two ends, pay attention to L1, L2, L3, N, PE corresponding connection, and use the crimping tool to squeeze the connection to ensure good contact.



# Led Screen Description



## Warning And Cautions

- . For use only in the environment with RCD residual current protector;
  - . Do not use the device when the charging cable is damaged;
  - . For electric vehicle charging only;
  - . The product must be well grounded when used;
  - . It is strictly prohibited to step on the charging cable, pull the cable, bend or knot the cable.
  - . Do not put your finger into the charging plug.
  - . Do not connect the circuit by yourself without the guidance of a professional.
  - . Do not use when the inside of the charging plug is wet.
  - . Do not install by yourself before reading the installation instruction.
  - . Do not use for other purposes except for electric car charging.
- SPECIAL ATTENTION:** Do not try to disassemble the device by yourself under any circumstances, this may cause damage to the internal precise parts, and you will not be able to enjoy after-sales service.



## Fault Indicator Prompt

Working state	Red	Green	Blue
Power On (Unplugged)	/	Stays On	/
Insert the plug (Uncharged)	/	Flashing	/
Charging Mode	/	/	Flashing
Charging Completed	/	/	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 over-current 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	/	/
Gun lock fault	Flash for 12	/	/
Memory failure	Flash for 13	/	/
Clock exception	Flash for 14	/	/

Remarks: Error frequency is 0.5S, pause 2S, continuous loop.

## Common Trouble Handling

Fault	Reasons	Suggestions
AC Over-voltage	High input voltage	1. If the voltage exceeds 265Vac for a short period of time, wait for the network to restore itself to the normal voltage range.
		2. Check the background monitoring data and analyze it. If the voltage in this area is over-voltage for a long time, the input over-voltage protection point can be increased by configuring software, up to 265Vac.
AC under-voltage	Low input voltage	Check the background monitoring data and analyze it. If the voltage in this area is under-voltage for a long time(175Vac), the input under-voltage protection point can be increased to a minimum of 90 Vac through the configuration software.
AC overcurrent	High input current	1. connect the distribution box leakage/over-current protection circuit breaker immediately.
		2. Check whether there is low impedance or short circuit between the two output lines of AC pile.
		3. After troubleshooting the above problems, power on again.If the problem still exists, please contact us.
Over-temperature	High temperature for AC pile	Check the installation environment of AC pile, check whether there is other heating equipment beside it, and ensure that the ambient temperature is below 50°C
Excessive leakage current	Excessive leakage current	1. Disconnect the leakage/over-current protection switch of the distribution box immediately.
		2. Check whether the AC pile output line is damaged or has low impedance to the ground or short circuit.
		3. After troubleshooting the above problems, power on again.If the problem still exists, please contact us.
Ground fault	Failure grounding of input/output or inverse connection of input L/N	1. Disconnect the leakage/over-current protection switch of the distribution box immediately
		2. Check whether the input/output line of the AC pile is grounded properly, and whether the input L/N is connected in the normal sequence.
		3. After troubleshooting the above problems, power on again.If the problem still exists, please contact us.
Abnormal communication ( grid-connected mode )	Backstage communicate fault	1. Check whether the connection of network cable is correct and reliable.
		2. Check the background charging pile configuration is correct.
Charger connection Error	Charger CC/CP connection error	1. Check whether the connection of charging gun is correct and reliable.
		2. If the fault persists, please contact us.



