

Chargingo

EV Charging Wallbox AC Charger

Chargingo



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MENU

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INSTRUCTIONS PERTAINING TO A RISK OF FIRE OR ELECTRIC SHOCK

IMPORTANT SAFETY INSTRUCTIONS

WARNING – When using electric products, basic precautions should always be followed, including the following. This manual contains important instructions(blank space is to be filled in with applicable model numbers) that shall be followed during installation, operation and maintenance of the unit. When the instructions are exactly the same for all models, specific model numbers are not required to be specified:

- a) Read all the instructions before using this product.
- b) This device should be supervised when used around children.
- c) Do not put fingers into the electric vehicle connector.
- d) Do not use this product if the flexible power cord or EV cable is frayed, has broken insulation, or any other signs of damage.
- e) Do not use this product if the enclosure or the EV connector is broken, cracked, open, or shows any other indication of damage.

Grounding InstructionFor plugged-in installation:

f) This product must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

g) **WARNING** – Improper connection of the equipment-grounding conductor is able to result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product – if it will not fit the outlet, have a proper outlet installed by a qualified electrician."

For hardwired installation:

This product must be connected to a grounded, metal, permanent wiring system, or an equipment grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead on the product.

CAUTION: To reduce the risk of fire, only connect your charger to a circuit with a branch circuit overcurrent protection of 125% of the selected max amperage setting of the device in accordance with the ANSI/NFPA 70 (US) and CSA C22.1 (Canada)

SAVE THESE INSTRUCTIONS

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.

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 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.

• Application

EV charger is used to offer the AC power for the vehicle with an battery charger. EV charger can be assembled in all kind of parking lot public, company and community.

It is also can be assembled in all kind of large, medium and small charge station.

It is adopted self-service way.

It is suitable all kinds of parking lot unmanned, users can charge, etc. independently.

• Main Function

- Supporting RFID to charge.
- Screen Display
- Shows information such as charging status ,max and charging current , power, and Kwh.

• **WARNING**

It may cause danger and harm, or damage the device if you don't operate in accordance with safety guide.

• **Electrical and fire risk:**

Don't use damaged and smudgy charge connector.

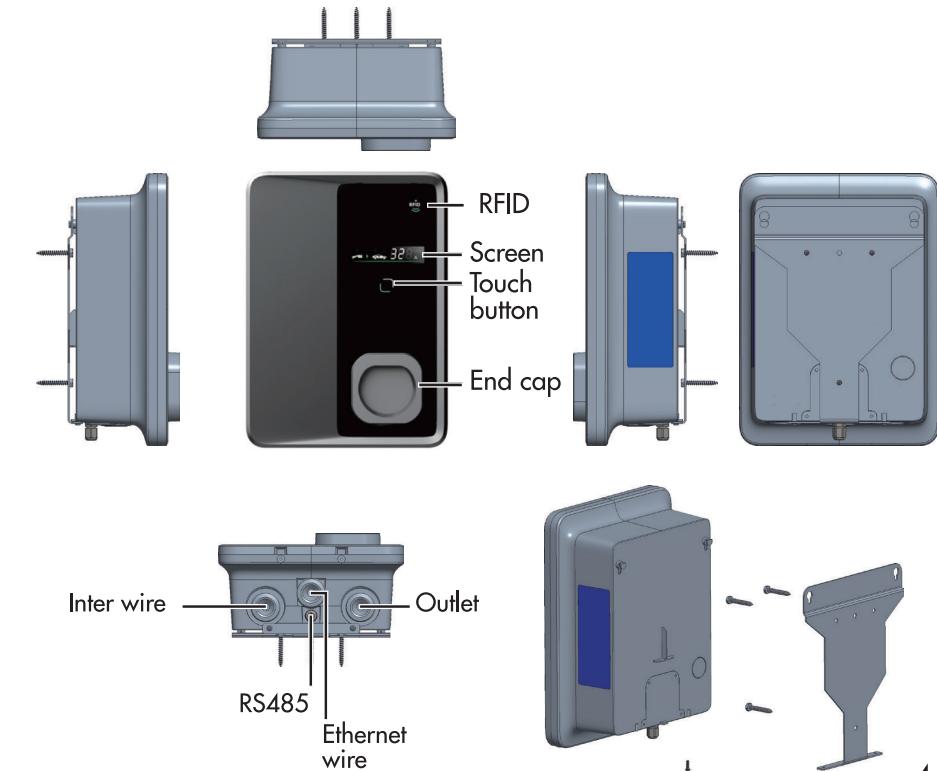
The electrical system for the connection of the EV charger must be inspected by professional. Meet the current requirements of the station. Don't follow the safety instructions can result in danger and injury, as well as damage to the equipment. Check the charging station and connector and see if there are any visible damage before each use.

EV chargers can only be used to charge electric vehicles (EVs) or hybrid vehicles (PHEVs)

Do not install the charging station in a closed container to avoid overheating.

Product View

• 1.1 Appearance



• 1.2 Product Specification

EV Home Charging Wallbox					
Product	Model No.	EAD02-03 EAP02-03	EAD02-07 EAP02-07	EAD02-09 EAP02-09	EAD02-11 EAP02-11
Input	Power Supply	NEMA Plug Or Hardwired	NEMA Plug Or Hardwired	NEMA Plug Or Hardwired	Hardwired
	Rated Voltage	208V/240V AC			
	Rated Current	16A	32A	40A	48A
	Power Frequency	50Hz/60Hz			
Output	Output Voltage	208V/240V AC			
	Max Current	16A	32A	40A	48A
	Rated Power	3.7kW	7kW	9kW	11kW
User Interface	Charging connector	Type 1(SAE J1772)			
	Cable Length	25Ft			
	Cable Specification	14AWG*3+ 18AWG*1	10AWG*3+ 18AWG*1	9AWG*3+ 18AWG*1	8AWG*2+ 10AWG*1+ 16AWG*1
	Enclosure Material	Plastic PC			
	Display	Charging Data			
Safety	Start Mode	RFID card			
	Application Standard	UL2594			
	Certification	ETL, FCC			
	Ingress Protection	Type 4/IP65 for box			
	RCD	CCID 20mA			
Environment	Electrical protection	Over Current Protection, Over/Under Voltage Protection, Over Temperature Protection, Surge Protection, Leakage Protection, Ground Protection			
	Installation	Wall Mounted / Pole Mounted			
	Working Temperature	-22°F to 122°F			
	Working Humanity	5%~95%			

• 1.3 Product list

Charging device assembly	1
Wall-mount Bracket	1
Installation fits (bag)	1
RFID cards	3
Instruction Manual	1

• 1.4 Transportation and Storage

The product is packed well before leave factory. Avoid sharp pounding, jolt and damage the package when transport. The storage and transportation temperature is -40°C+70°C, the humidity is 95%, the ambient air shouldn't contain acidity, alkalinity and other corrosive gas or explosive gas.

Installation Instruction

• 2.1 Safety Tip

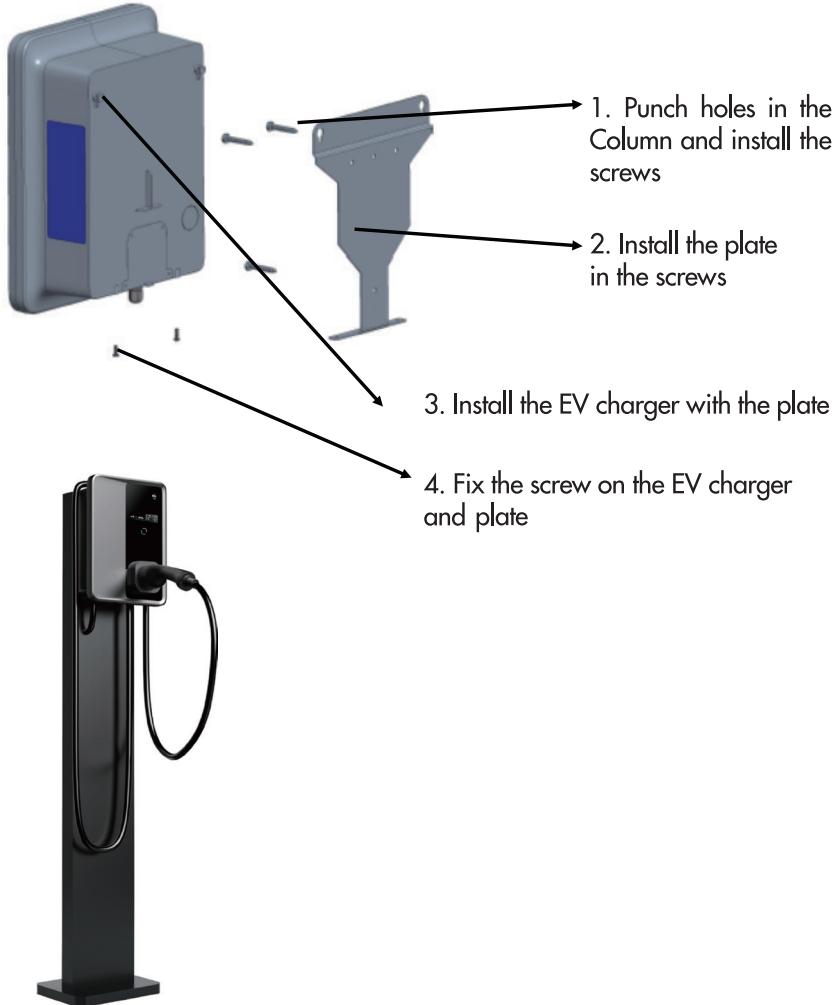
The people who assemble and use the EV charger must response the follow principle and rule.to confirm the relevant people and device operation normally: Before device power on. please confirm the device is good earth, to avoid the unnecessary accident.

All of the tools must be insulation treatment to avoid the short circuit or personal injury due to uncovered metal touches metal frame. Confirm the EV charger using life and operation steadily, the device should keep cleaning, constant temperature and constant humidity. the EV charger can't be used in the environment that contain volatile gas or flammable-explosive. Children mustn't touch EV

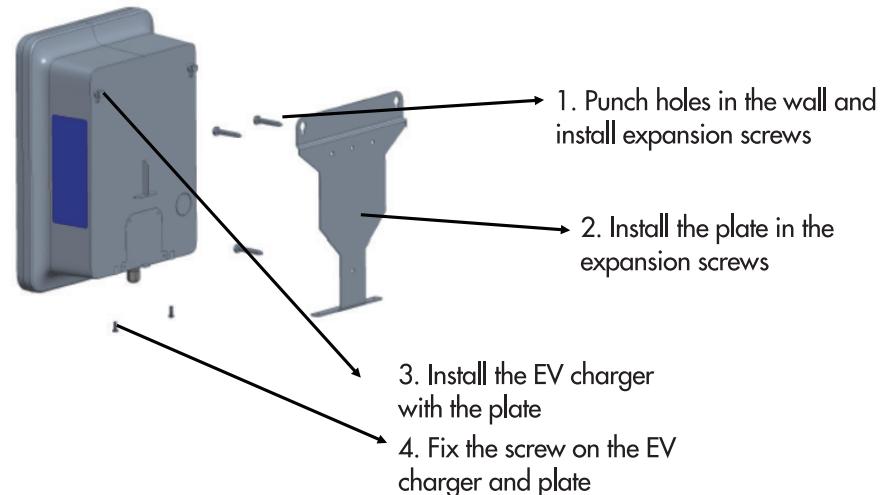
• 2.2 Installation Guide

Pole mounted installation:

This device shall be mounted at a sufficient height from grade such that the height of the storage means for the coupling device is located between 600 mm (24 inches) and 1.2 m (4 feet) from grade.



Wall mounted installation:



For Reference

Danger!

Laypeople's installation may cause the danger.

Only electrician who is trained and qualified can install the EV charger.

The electric shock would happen if don't install accord with operation procedure.

The electric shock or the serious hazard would happen if don't observe operation instruction of safety precaution.

2.3 Electrical connection

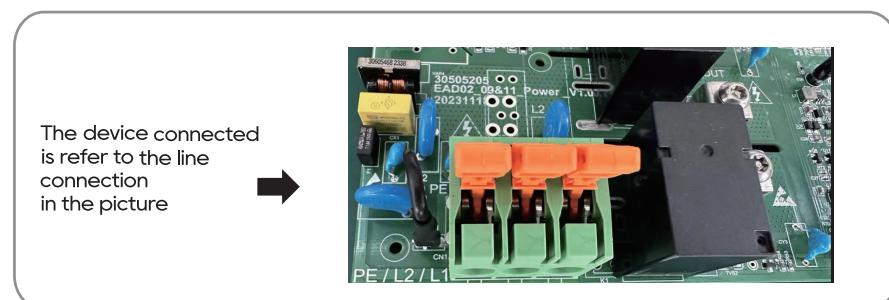
Before use

! PLEASE NOTE: This procedure may only be carried out by an authorised electrician!

Electrical connection:

The protection of the charging system must be carried out in accordance with the relevant national regulations. It depends on, for example, the switch-off time required, the internal network resistance, conductor cross section, cable length and the max. capacity of the charging system. The individual phases of the supply voltage must each be fused with circuit breakers.

! CAUTION: Please be sure that there is no voltage in the power lines which are to be connected to the EV charger

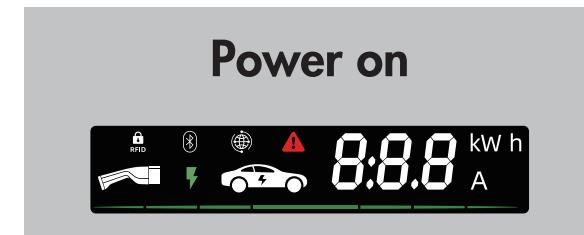


Charging Instruction

• 3.1 Charge preparation

After plug in, according to the screen prompt operation, start to charge.

• 3.2 Start to charge (RFID)



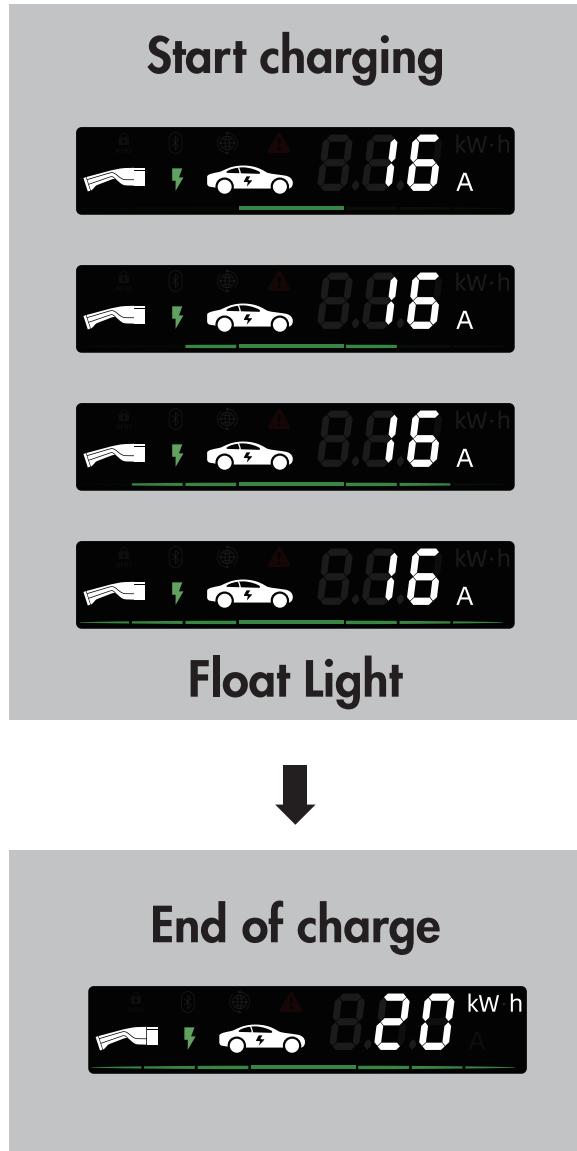
T2 plug is not inserted in the car



Connect to the car



Swipe the card to unlock (If no current is selected, the current is 6A (if initial use), or the last stored current (if not initial use)



Malfunction and Maintenance

• 4.1 Maintenance caution

Check whether the line is aging with the monthly power cut. Conduct leakage test on the external leakage protector to ensure the normal operation of the leakage protector. Observe incoming lines to make sure no wire is damaged.

• 4.2 Breakdown and Maintenance

Error Mode		
No	Error State	Recovery Method
ERROR 2	Over Temperature (Control Box)	Wait for temperature reduction, retry charging.
ERROR 3	Over Current	Disconnect the charging plug. Retry charging.
ERROR 5	Leakage(RCD)	Disconnect the charging plug, make sure the L and N cable is not short to PE cable. Retry charging.
ERROR 6	Leakage Device Self-test	Disconnect the charging plug, retry charging. Can not use any more.
ERROR 7	Low Voltage	Make sure the input voltage is between 120V to 240V. Retry charging.

Error Mode		
No	Error State	Recovery Method
ERROR 8	Over Voltage	Make sure the input voltage is between 120V to 240V. Retry charging.
ERROR 9	Relay Conglutionation	Disconnect the charging plug. Retry charging.
ERROR 10	Relay Stuck Fault	Disconnect the charging plug. Retry charging.
ERROR 12	Over Temperature (Input Plug)	Wait for temperature reduction, retry charging.
ERROR 13	Grounding(PE) Test failed	Make sure the PE cable is connected to Ground, retry charging.
ERROR 14	CP voltage is fault	Disconnect the charging plug, retry charging.
ERROR 15	CP diode is fault	Disconnect the charging plug, retry charging and make sure the car is OK.

Error Mode		
No	Error State	Recovery Method
ERROR 22	Sampling circuit fault	Disconnect the charging plug. Retry charging.
ERROR 24	Temperature cable broke	Disconnect the charging plug, retry charging.
ERROR 26	Sampling reference voltage is fault	Disconnect the charging plug. Retry charging.