

CC30 CE standard AC charging station

Instruction Manual

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1 Overview

CC30 CE standard AC charging station is designed to be used in conjunction with an electric vehicle's on-board charging unit. It can support both floor-mounted or wall-mounted installation. The charging station is equipped with an internal metering system and can be activated by pressing the side-button, swiping RFID card, or using the mobile APP. This product has a wide range of applications, such as residential areas, shopping malls, office buildings, and parking lots. It can also be installed in various sizes of electric vehicle charging stations to provide convenient and safe charging services for electric vehicle owners.

2 Model Name

CC30

3 Exterior Drawing of Charging Station

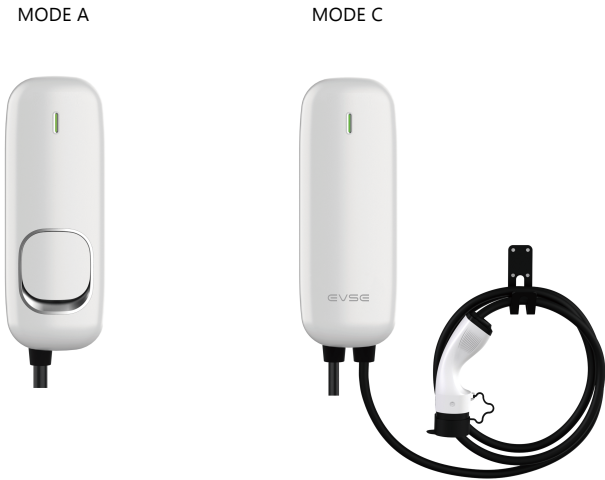


Fig 1 Charging Station

4 Dimension

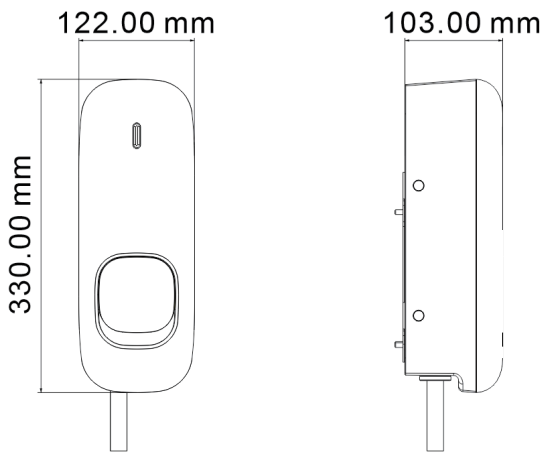


Fig 2 Dimension of charging Station

5 Installation Methods

5.1 Wall-mounted Installation

1. Drill holes in the wall at the designated location for the charging station installation. Insert plastic bolts into the holes to secure the expansion screws.
2. Secure the mounting plate to the wall using M5*30 expansion screws. Ensure proper alignment with the pre-drilled holes.
3. Install the main body of the CC30 with the buckle onto the mounting plate using M5*10 machine screws and then insert the provided waterproof hole plugs.
4. Connect the station to the power grid following the wiring sequence. Your installation is now complete.

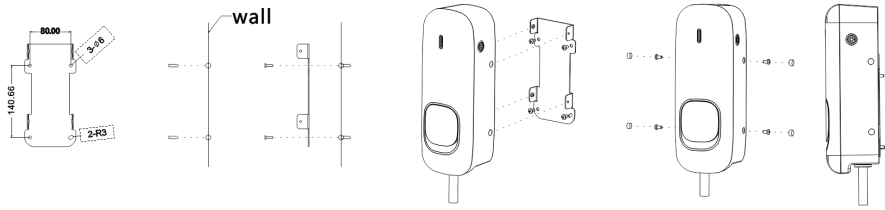


Fig 3 Wall-mounted installation procedures

5.2 Floor-mounted Installation

1. Drill holes in the ground at the designated location for the charging station stand. Secure the stand's base to the ground using M10*100 expansion screws.
2. Align the main body of the stand with the screw holes on the stand's base, and fasten it with M10*16 screws.
3. Install the backplate on the stand using M5*10 machine thread screws.
Align the main body of the CC30 with the buckle on the backplate and secure it with M5*10 machine thread screws. Thread CC30's power cable into the stand's input hole.
5. Align the upper and lower parts of the stands, securing the connection with M5*10 screws. Thread the charging pile input cable out from the stand's base.
6. Connect the station to the power grid following the wiring sequence. The installation is now complete.

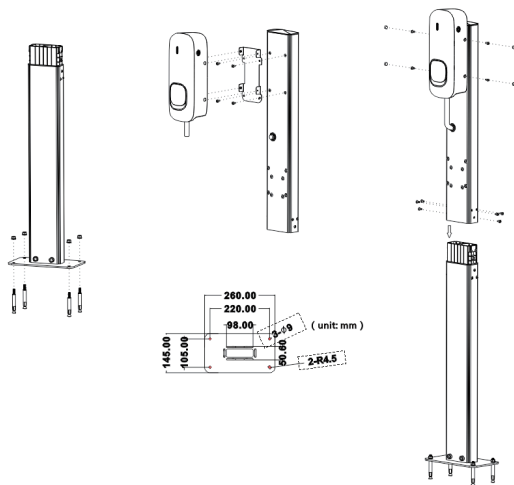


Fig 4 Floor-mounted installation procedures

Note: Space for use and maintenance should be reserved when installing the charging station.

5.3 Charging Point Input Power Interface

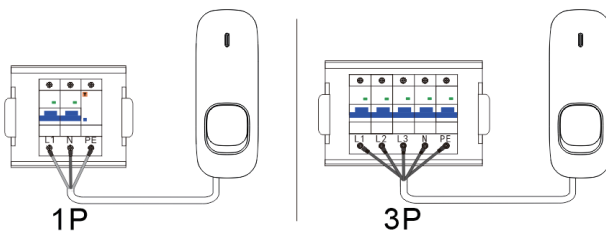



Fig 5 Charging station input power interface

Single-phase 230V Connection:
Connect the single-phase 230V cable to L1, N, and PE interfaces.

Three-phase 400V Connection:
Connect the three-phase 400V cable to L1, L2, L3, N, and PE interfaces.

Choose the incoming cable according to the charging station's maximum current specification. Opt for a 2.5mm²cable for a 16A charging station and a 6mm²cable for a 32A charging station.

6 Technical Parameters

Specifications	Model: CC30	
Exterior material	Shell Material	ABS+PC Plastic
	Routing Mode	Lower Incoming Line
	Charging Interface	Charging Socket
	Dimension	330*122*103mm
Electrical Indicators	Input Voltage	230V/400V AC three-phase five-wire configuration (L1 phase, L2 phase, L3 phase, Neutral, PE)
	Input Current	16A / 32A (MAX)
	Frequency	50Hz /60Hz
	Power	3.6kW/7.2kW/9.6kW/11kW/22kW
	Metering Function	
	Measuring Accuracy	Class 2
	Output Voltage	230V/400V AC
	Output Current	32A MAX
	Power Dissipation	≤10W

	Standard	EN IEC 61851-1:2019
	MTBF	100,000 hours
Environmental Indicators	Applicable Scene	Outdoor / Indoor
	Operating Temperature	-25℃ ~ +55℃
	Operating Humidity	5% ~ 95%
	Altitude	<2000m
	IP Rating	IP54
Safety Protection	Low Voltage Protection	■
	Overload Protection	■
	Short Circuit Protection	■
	AC Leakage Protection	■
	DC 6mA Leakage Protection	■
	Grounding Protection	■
	Over temperature Protection	■
	Lightening Protection	■
Human-computer Interaction	LED light	■
	RFID	Only available on RFID model
	APP	Only available on APP model

Table 1 Technical Parameters

7 Charging Status Indicator





State	Power (Cyan) 	Connected (Green) 	Charging (Green) 	Fault (Red) 
Stand By	On	Off	Off	Off
Connected	Off	Off	Off	Off
Charging	Off	Off	Breathing	Off
Fault	Off	Off	Off	Flashing
Synchronize time using the APP	Flashing	Off	Off	Off

Table 2 Color status diagram of charging status indicator

7.1 LED Fault Indicator Light

Fault Code	Cause of failure	Display Mode
1	Error	The red light flashes 1 time, and the rest are off
2	Under-voltage Protection	The red light flashes 2 times, and the rest are off
4	Grounding Protection	The red light flashes 4 times, and the rest are off
5	Over-current Protection	The red light flashes 5 times, and the rest are off
6	Short Circuit Protection	The red light flashes 6 times, and the rest are off
7	Leakage Protection	The red light flashes 7 times, and the rest are off
8	Temperature sensor 1 is overheated	The red light flashes 8 times, and the rest are off
9	Temperature sensor 2 is overheated	The red light flashes 9 times, and the rest are off
10	CC fault	The red light flashes 10 times, and the rest are off
11	Emergency stop protection	The red light flashes 11 times, and the rest are off

Table 2 Introduction to LED fault indicator light

Introduction to the fault code:the flashing red light indicates that there is a fault in the system,and the fault light indicates a fault code according to the cycle of 13seconds.Within 13 seconds,the red light first goes dark (0.5s),then goes on (0.5s),and then flashes as many times as the fault code is,and then the remaining seconds are always off.

For example,the fault code is 5:red light flashes 5 times in 5 seconds,and the other 8 seconds will be off.

When there are multiple faults,only one fault is displayed.

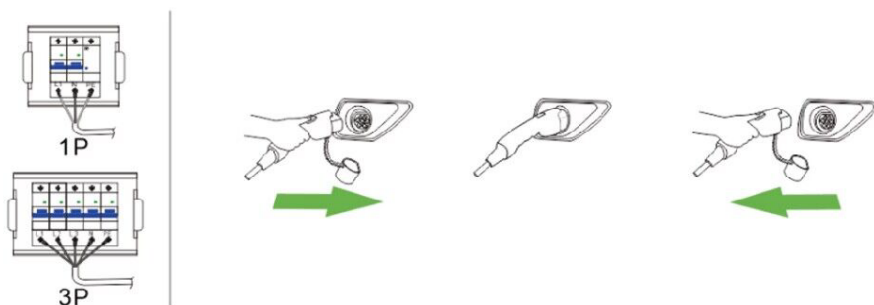
Short circuit protection fault and leakage faults will not continue to charge,and can be recovered only after the charging plug is plugged and unplugged again;For other faults,re-plugging is not required,and will automatically resume charging after the fault is restored.

8 Operating Instructions for Use

Select the appropriate starting method based on the charger specifications:

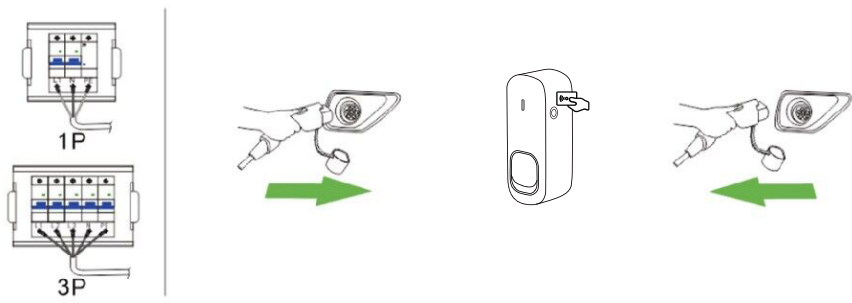
Connect one end of the charging plug to the charging socket of the charging station and the other end to the vehicle charging port. Once the charging station's indicator light turns green and enters the breathing state, it indicates that the charging station is now in the ready charging state.

8.1 Button Start Mode



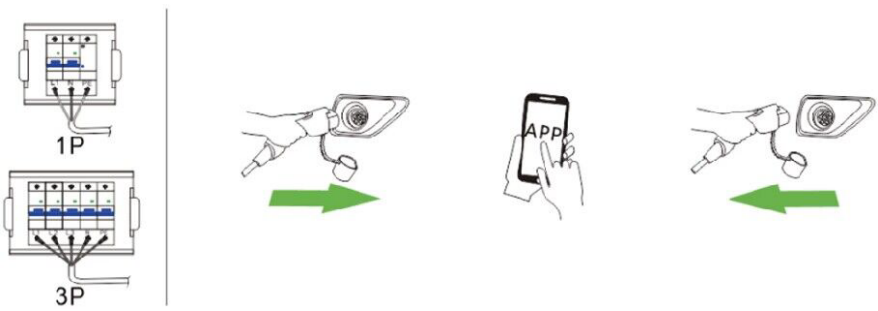
1. Make sure the charging station is connected to power;
2. Connect the EV and the charging station with the EV charging plug;
3. After connecting the plug, press the button on the side of the charging station to enter the charging state;
4. When you need to complete charging, just pull out the charging plug.

8.2 RFID Start Mode



- 1. Make sure the charging station is connected to power;
- 2. Connect the EV and the charging station with the EV charging plug;
- 3. After connecting the plug, swipe the RFID card in the card swiping area below the indicator light to enter charging mode;
- 4. When you need to complete charging, just swipe the card to end the charging process and pull out the charging plug.

8.3 App Start Model



- 1. Make sure the charger is connected to power.
- 2. Connect the EV and the charger with the EV charging plug.
- 3. After connecting the plug, follow the charger interface prompt, and click 'Start Charging' on the app to initiate the charging process.
- 4. When you need to complete charging, you can either end it through the app or simply pull out the charging plug.

9 Precautions of Use

DANGER!

Failure to follow instructions may result in danger!

- Please use the charging station under safe and proper operational conditions;
- Prevent children from touching the charging station;
- Install the charging station away from pyrotechnics, dust, and corrosive environments;
- Due to the high voltage output, prioritize personal safety during usage. Serious injury or death may occur if safety measures are not observed;
- In the event of a fault, there's a risk of electric shock or even death. Cut off the power supply in emergencies.
- Avoid disassembling the charging station during charging.

10 About Maintenance

The product has been already packed in the factory. During transportation , strong impact and bumps should be avoided to prevent damage to the outer packaging of the product . The product should be stored at an ambient temperature of $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ and a relative humidity of no more than 95% . The ambient air should not contain acids , alkalis or other corrosive gases and explosive gases , and the product should be protected from rain , snow , wind and sand.

11 Security Warnings

WARNING!

Failure to follow instructions may result in danger!

- Regularly check the charging station for visible damage. Operating a damaged product may pose a risk of electric shock.
- Ensure all safety facilities are present and conduct regular tests to guarantee proper operation.
- If a ground fault occurs, treat the earth wire as if it carries voltage. Only inspect the charging station after making sure there's no high-voltage power in the system.
- Users of the charging box must strictly adhere to principles and regulations to ensure personal safety and equipment safety. Failure to comply may result in serious consequences.

- Installers and users must follow principles and regulations for their safety and equipment safety.
- Before powering on the charging station, ensure proper grounding to avoid accidents.
- Insulate tools without exposed metal parts to prevent short circuits.
- Do not modify, refit, or change any part by yourself under any circumstance.
- Maintain the charging station for a stable operation. Keep the environment clean, thermally regulated, and consistently humid. Avoid using the station in the presence of volatile gas or flammable atmosphere.
- Confirm that input voltage, frequency, circuit breakers, and other conditions meet specifications before powering up.
- Have the charging station installed by authorized personnel.
- Check if the product meets local regulatory requirements.
- Hang the charging plug 0.4-1.5m above ground level.

12 Warranty Service

12.1 Warranty Conditions

After the product leaves the factory, due to transportation reasons, the user found that the product or supporting parts were damaged during the unpacking inspection.

After the product leaves the factory, the user encountered quality issues despite strictly following the storage, installation, and usage rules outlined in this instruction manual.

12.2 Warranty Period

The product is guaranteed for 12 months from the date of receipt.

12.3 Warranty Methods

During the warranty period, the manufacturer is responsible for free replacement or repair.

Beyond the warranty period, the user shall negotiate with the manufacturer to replace or repair in a paid way.

This manual is subject to any change without notice.

If the contents of this manual do not conform to the real object, please refer to the real object.