



**Wall-mounted AC charging pile
J1772/Type1**

JZ22-1

Operation Manual

www.gwuyu.com

Instructions for wall mounted Charging station

CHARGING STATION INSTRUCTIONS



Thank you for using the JZ22-1 household
AC charging station!

Approved Markets: North America

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Statement

1. The document is only used for the household AC Charging station series products developed and produced by icapia. and it include important instructions that must be followed.
2. The document provides details and operating instructions for users. Before using the product, please read the document carefully, strictly follow the safety instructions. Please keep the manual well.
3. The manual will be updated, adjusted, and corrected based on actual product upgrades. Users are advised to refer to the actual product purchased.
4. In the actual use, malfunctions or doubts arise that cannot be learned through this manual. In the event of a resolution, please contact us promptly and do not operate on your own.
5. All information in this document is subject to copyright and other intellectual property rights to Bolatu. The unauthorized use of any trademark displayed in this document is strictly prohibited.

Safety Information

Warnings

Do not attempt to disassemble, repair, tamper with, or refit the Wall Connector. Please contact us for any repairs or modification.

Do not install or use the Wall Connector near flammable, explosive, harsh, or combustible materials, chemicals, or vapors.

Do not touch the Wall Connector's end terminals with fingers or sharp metallic objects, such as wire, tools, or needles.

Keep the charging gun head clean and dry. If there is any dirt, please use a clean dry cloth to wipe it.

Cautions

In case of thunderstorm weather, please charge with caution.

Children are not allowed to approach or use the Wall Connector during charging.

In case of an emergency during product operation, the emergency button can be immediately pressed to cut off all input and output power supplies.

Prohibit

During the charging process, the vehicle is prohibited from driving and can only be charged when stationary.

Please turn off the vehicle before charging.

In case of the following situations, it is forbidden to use the Charging station, and the manufacturer should be contacted immediately:

- The shell of the Wall Connector is damaged.
- The connector or charging cable has defects, cracks, wear, and tear, and the charging cable is exposed.
- Lightning strikes the Charging station.
- Accident or fire near Charging station.

Overview

This product is used for AC slow charging of electric vehicles, with a highly simplified design and is divided into 7KW-9.6KW-12KW. Provide card swiping and plug charging methods, with multiple safety protection functions. The equipment adopts the principle of industrial design, the overall protection level of the machine reaches IP55, with good dustproof and waterproof functions, and can be safely operated and maintained outdoors.



Features

Specifications	Model	7kW-1P-32A	9.6kW-1P-40A	12kW-1P-48A
	Product name	Single-phase wall-mounted AC charging pile		
Appearance structure	product type	Easy home version		
	Shell material	PC material body		
	Equipment size	325*220*100mm		
	Installation method	Wall-mounted		
	Wiring mode	Lower left power line in, lower right gun line out		
Hardware configuration	Gun length	5m		
	Emergency stop function	Possess		
	Charging mode	RFID card/Plug and play		
	Leakage protection	TypeA		
	Communication method	Wi Fi (starter/optional)		
Electrical index	Input voltage	110V-240V		
	Input frequency	50Hz/60Hz		
	Maximum power	12kW (MAX)		
	Output voltage	110V-240V		
	Output current	48A (MAX)		
	Standby power	<3W		
Environmental indicators	Applicable scenario	Indoor/Outdoor		
	Working temperature	-30°C ---- +55°C		
	Working humidity	5% - 95% without condensation		
	Working altitude	<2000m		
	Protection grade	IP55		
	Cooling mode	Natural cooling		
	MTBF	100000 hours		
	Special protection	UV protection design		
Safety design	Overvoltage protection, undervoltage protection, overload protection, leakage protection, grounding protection, over-temperature protection, lightning protection			

Standard

The Single-phase AC Charging station is designed according to the latest national standard, and its function and performance meet the industry standards. The technical standards used are shown in the table below.

Serial Number	Standard number	Standard Name
1	SAE J1772(American standards)	Compliant Electric Vehicle Service Equipment Reference Design for Level1 and 2 EV Charger
2	NACS TS-0023666	North American Charging Standard For Tesla

Operation

Preparation

- ① Ensure that there are no flames around the equipment and that the surrounding space is not blocked.
- ② Ensure the integrity of the equipment casing and charging cable.
- ③ Protection during the preparation period.

1. Ready

- ① After the Charging station is powered on, the interface displays "Ready" status, as shown in the following figure:



- ② The indicator LED on the casing is always green, as shown in the following figure:



Operation

2.Tap the card

① After parks the electric vehicle at the station, please ensure that it is in the correct position.

② When the charging gun detects that the charging input is correct, the interface displays “Tap the Card” status, as shown in the following figure:



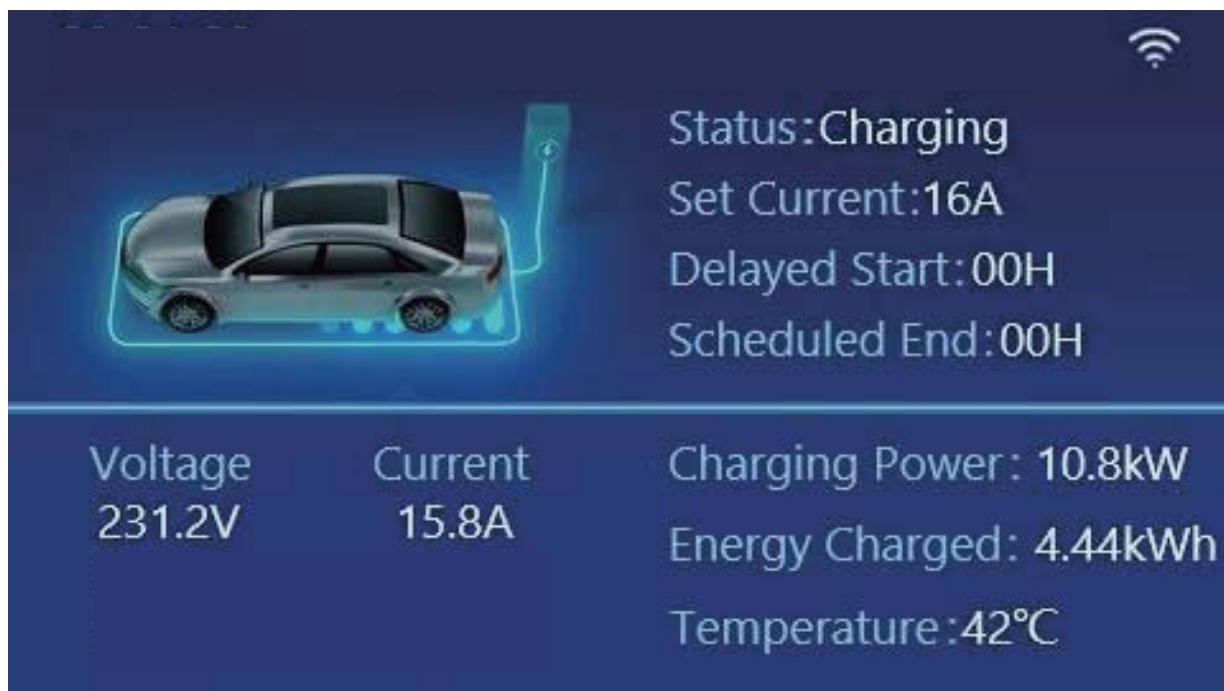
③ The indicator LED on the machine flashes, as shown in the following figure:



Operation

3.Charging

- ① Use RFID card or Tuya Smart APP (optional) to authorize the charging
- ② The device starts charging, and the interface displays the “Charging” status and information parameters, as shown in the following figure:



- ③ The indicator LED on the casing is a blue breathing light



Operation

4.Waiting / Charging Stop

① In the charging state, the RFID card can be used to stop charging. When fully charged, the charging will automatically stop.

② Use RFID card to authorize to stop using Charging station.

③ After charging is completed, the end interface has two display effects:



When the vehicle is fully charged, it will automatically stop charging or the user has set a delayed charging time, and the device is waiting to start charging. The display effect is shown in the above figure.



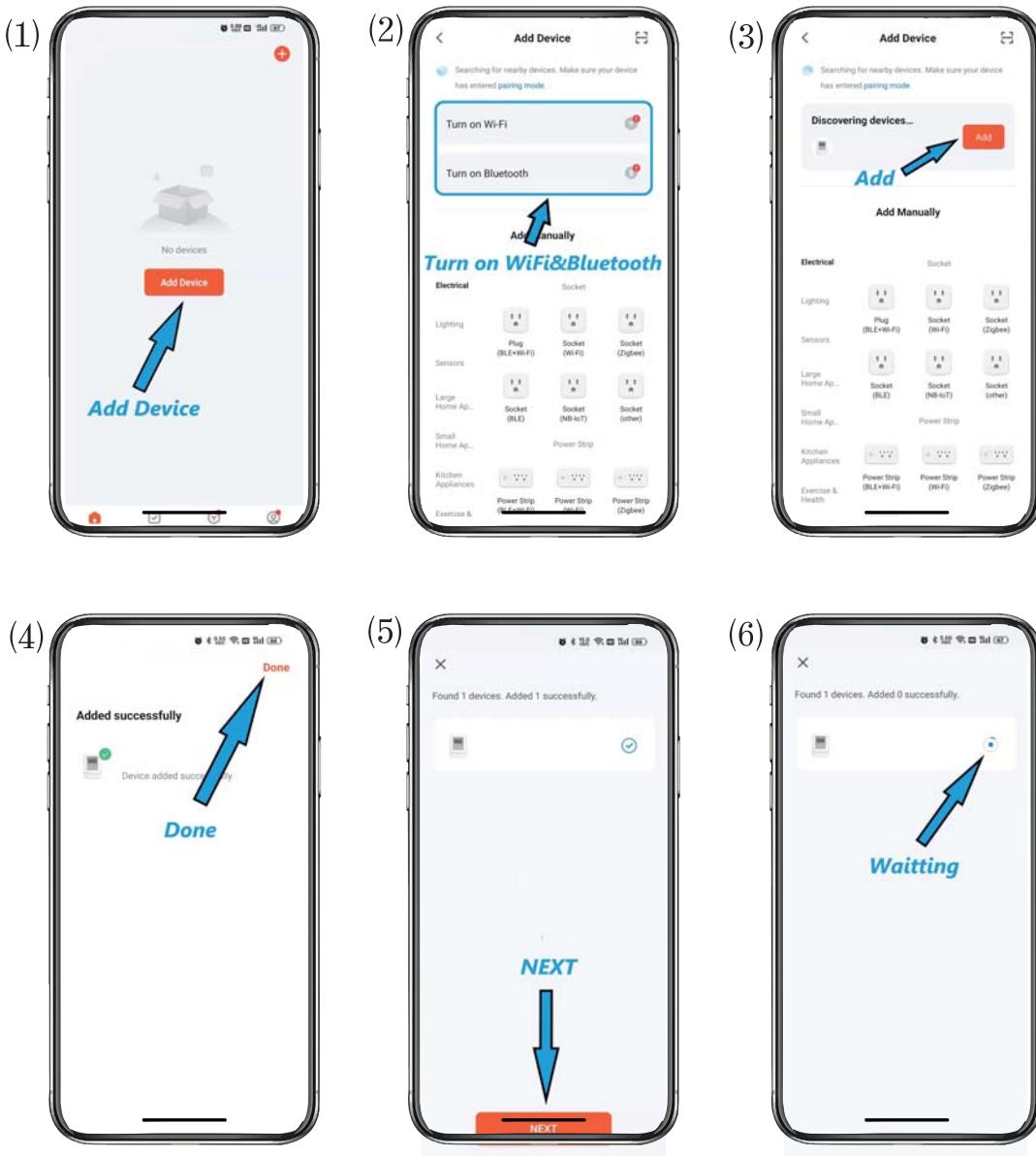
In the charging state, by manually swiping the card to stop charging, the device stops charging. The display effect is shown in the above figure.

WIFI Connection(optional)

①Please download the "Tuya Smart" APP on your mobile phone, with the icon shown in the following figure:



② After downloading, open the app, select Add Device, and follow the instructions to complete the addition of the new device, as shown in the following figure:



③WIFI corner description (equipment must have WIFI function)



Operation of special distribution network

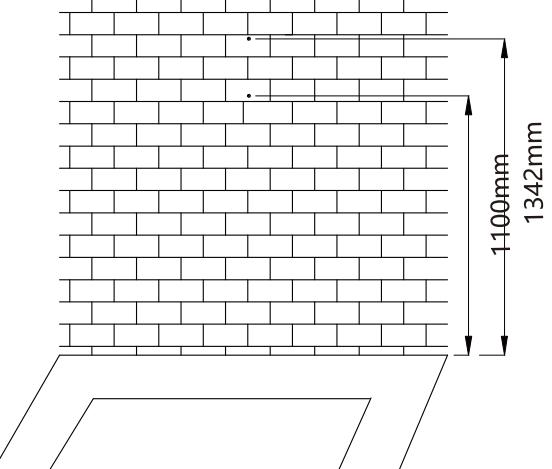
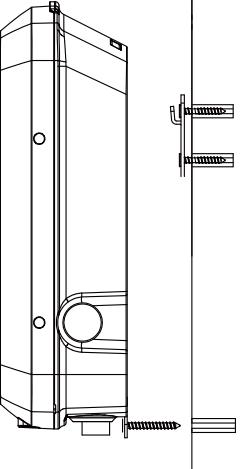
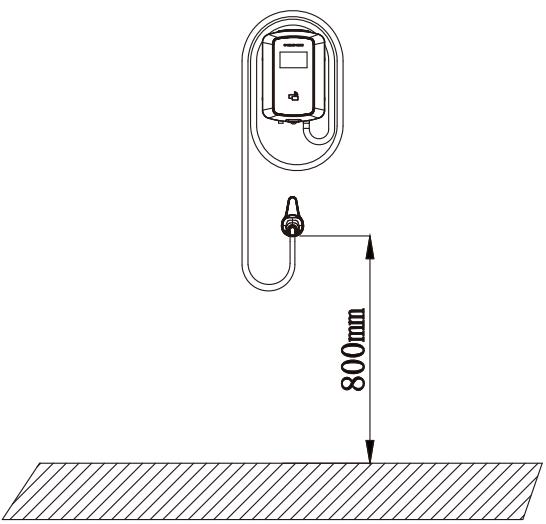
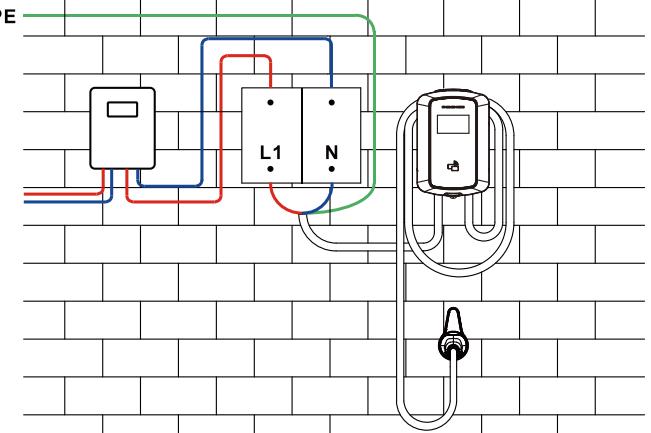
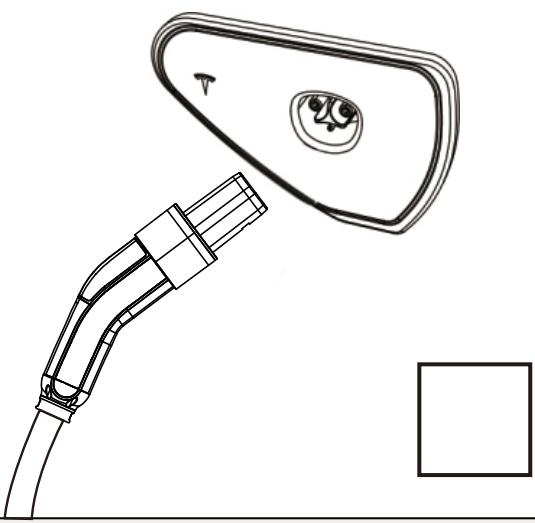
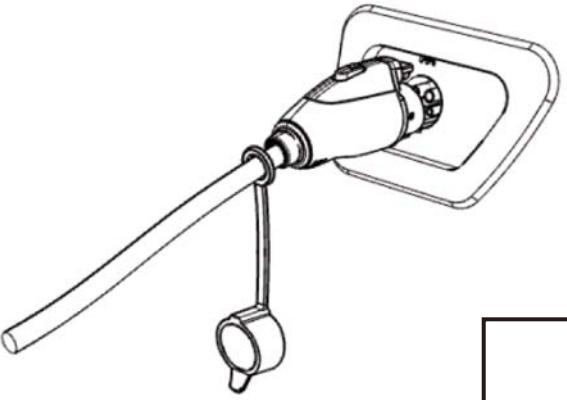


Connected to the internet



Not connected to the internet

Installation

	
<p>1. According to the size of the steel hanging plate hole, use an electric drill to drill holes at a suitable height on the wall, then insert an expansion pipe, and then use long screws to fix the steel hanging plate (large) to the wall</p>	<p>2. After installing the steel hanging plate (small) on the lower part of the equipment using short screws, hang the steel hanging plate (large) on the equipment, and use long screws to fix the steel hanging plate (small) on the wall</p>
	
<p>3. Install the gun base (optional)</p>	<p>4. Turn on the power to confirm that the indicator light and display screen start normally</p>
	
<p>Try inserting a Tesla gun and swiping your card to start charging</p>	<p>Try inserting the American standard charging gun and swiping your card to start charging</p>

Troubleshooting

Fault name	Possible causes of the malfunction	Troubleshooting suggestions
AC overvoltage	AC input voltage too high	<ol style="list-style-type: none"> 1. Please have an electrician test the input voltage of the air switch 2. If the actual voltage exceeds 264 Vac (single-phase) for a short period of time, wait for the grid to automatically return to the normal voltage range 3. If the actual voltage is longer than 264 Vac for single-phase, please contact the power supply department 4. If the actual voltage is less than (single-phase) 264 Vac, please contact us:
AC undervoltage	AC input voltage too low	<ol style="list-style-type: none"> 1. Please have an electrician test the input voltage of the air switch 2. If the voltage drops below (single) 85 Vac for a short time, wait for the power to return to the normal range 3. If the actual voltage is less than (single-phase) 85 Vac for a long time, please contact the power supply department 4. If the actual voltage is greater than (single-phase) 85 Vac, please contact us;
AC overcurrent	Excessive AC input current	<ol style="list-style-type: none"> 1. Immediately disconnect the leakage/overcurrent protection switch of the distribution box 2. Check if there is a low impedance connection between the two output lines of the AC pile 3. After troubleshooting the above issues, power on again. If the fault persists, please contact us
Over Temperature	Internal temperature greater than 85 degrees Celsius	<ol style="list-style-type: none"> 1. Check the installation environment of the communication pile, check if there are heating devices or devices nearby, and ensure that the ambient temperature is below 60 ° C 2. If the fault cannot be eliminated, please contact us
Excessive leakage current	Leakage current greater than 30mA	<ol style="list-style-type: none"> 1. Immediately disconnect the leakage/overcurrent protection switch of the distribution box 2. Check if the output line of the AC pile is damaged or has a low impedance connection to the ground 3. After troubleshooting the above issues, reset the leakage current protector reset switch and power on again. If the fault persists, please contact us
Abnormal leakage current sensor	Abnormal sensor for detecting leakage current	<ol style="list-style-type: none"> 1. Immediately disconnect the leakage/overcurrent protection switch of the distribution box 2. Check if the output line of the AC pile is damaged or has a low impedance connection to the ground 3. After troubleshooting the above issues, power on again. If the fault persists, please contact us
Ground fault	Poor grounding of input/output or reverse connection of input L/N	<ol style="list-style-type: none"> 1. Immediately disconnect the leakage/overcurrent protection switch of the distribution box 2. Check whether the input/output line of AC pile is grounded normally and whether the input L/M is connected in normal sequence 3. After troubleshooting the above issues, power on again. If the fault persists, please contact us
Abnormal connection of charging gun	Abnormal connection of charging gun CC/CP	<ol style="list-style-type: none"> 1. Check if the connection of the charging gun is correct and reliable 2. If the fault persists, please contact us

Led Word

Serial number	charging	Green	blue	Red	Definition description
1	Ready	On	Off	Off	Power-on self-test or reset
2	Waiting	flash	Off	Off	The voltage of detection point 1 is $9 \pm 0.8V$,
3	Charging	Off	Breathing	Off	Detection point 1 voltage is $6 \pm 0.8V$, the relay is closed
4	Chargin gStop	Off	On	Off	Manually stop charging
5	Err:CP	Off	Off	Flash 1 time	The voltage of detection point 1 is $9.8V < U < 11.2V$; $6.8V < U < 8.2V$; $12.8V < U$ or $U < 5.2V$; the relay is off
6	Under Voltage	Off	Off	Flash 2 times	(single phase)Voltage<85V
7	Over Voltage	Off	Off	Flash 3 times	(single phase)Voltage>264V
8	Elec Leakage	Off	Off	Flash 4 times	The relay is disconnected, and it needs to be re-powered after the fault is removed before the relay is allowed to close
9	Over Current	Off	Off	Flash 5 times	When the line current is $Ie+2 < I \leq Ie+4,5S$, the relay is disconnected, and it will automatically restart after 10S. Repeat three times for permanent disconnection. When $I > Ie+4$, the relay is disconnected, and the charging ends
10	Over Temp	Off	Off	Flash 6 times	Temperature>85 degrees, disconnect the relay, wait for the temperature <65 degrees, then turn on charging
11	Err:Reset	Off	Off	Flash 7 times	When the emergency stop button is pressed, the relay is disconnected. After the fault is removed, the relay is allowed to close(OR do not detecte ID card)

FCC WARNING

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.

Note: 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.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. such modifications could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement. To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20 cm between the radiator and your body, and fully supported by the operating and installation configurations of the transmitter and its antenna(s).

