



# Electric vehicle AC charging pile 7kW operation manual



Please read this manual carefully before using the product. Thank you for using this series  
of charging piles !



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## Chapter 1 Product Overview

The arrival of large-scale industrialization of electric vehicle charging piles has created a new era of new energy and energy conservation. In order to meet the development and demand of national new energy electric vehicle charging pile, our company took the lead in developing a series of new products supporting electric vehicle charging pile. This type of AC charging pile is designed according to IEC 61851-1:2017.

## Chapter 2 Scope of application

The AC charging pile provides AC 50HZ and rated voltage 220V AC power supply for charging electric vehicles with vehicle-mounted charger. It is mainly applicable to the following places:

◇Urban residential district;

## Chapter 3 Work Environment

◇Ambient air temperature during operation is  $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$ , 24h average daily temperature  $\leq 35^{\circ}\text{C}$ ; (Too high or too low temperature will affect the life of the product);

◇Average relative humidity  $\leq 90\%$  ( $25^{\circ}\text{C}$ ), no condensation on the surface;

◇Air pressure:  $80\text{kpa} \sim 110\text{kpa}$ ;

◇Installation vertical inclination  $\leq 5\%$ ;

◇The experimental grade of vibration and impact in the place of use is  $\leq \text{I}$ , and the external magnetic field induction intensity in any direction is  $\leq 1.55\text{MT}$ ;

◇The use place shall not have explosive hazard medium, the surrounding medium does not contain corrosive metal, damaging insulation harmful gas and conductive medium, do not allow the existence of water vapor and serious mildew coach bacteria;

◇Use the place should be away from direct sunlight, outdoor installation, it is recommended to add shading facilities for charging pile, to extend the service life of equipment;Customers with special requirements, can negotiate with our company to solve.

## Chapter 4 function features

- ◇AC220V AC input is adopted; The main control board adopts a single chip microcomputer with embedded operating system;
- ◇Install the emergency stop button;
- ◇The shape adopts ABS plastic structure.

## Chapter 5 product parameters

Parameter table of charging pile

Product model		CLX-AC-07-B-A-0-1-SA
		Household funds
Detailed specifications	Rated power	7kW
	Routing mode	Lower incoming and outgoing lines
Appearance structure	Equipment size	150mm (D)*150mm (W)*65mm (H)
	Equipment weight	3Kg
	Cable length	5m
	input voltage	AC220V $\pm$ 20%
Electrical index	Input frequency	50 $\pm$ 1Hz
	Rated power	7kW
	output voltage	AC220V $\pm$ 20%
	Output current	32A
	Current limiting	$\geq$ 110%

Product model		CLX-AC-07-B-A-0-1-SA
		Household funds
	protection value	
	interface	LED indicator strip
Functional design	Charging mode	Plug and play
	Executive standard	IEC 61851-1:2017, ICE 62196-2:2016
safety design	Safety function	Overvoltage protection, undervoltage protection, overload protection, grounding protection, overcurrent protection, emergency stop protection, leakage protection and over temperature protection
	working temperature	-20℃~+50℃
Environmental indicators	Working humidity	5%~95% frost free
	Working altitude	<2000m
	Degree of protection	IP54
	Cooling mode	Natural air cooling
	noise control	≤40dB
	MTBF	30000 hours

## Chapter 6 Storage and Transportation

### 6.1、Storage and transportation of equipment

Take proper tightening measures during transportation to avoid damaging the outer packing of the equipment due to strong vibration and turbulence. Upon arrival, check whether there is any damage. If there is any damage, negotiate with the carrier and our company to solve it. After unpacking, check whether the contents are consistent with the packing list.

Packed devices should be stored indoors where the relative humidity is no more than 80% and the ambient air temperature is  $-10^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ . The storage place should be dry, clean, ventilated, and can prevent the invasion of all kinds of harmful gases, do not store with corrosive goods in the same place.

**Note: non professional personnel are strictly prohibited to dismantle and move equipment components.**

## Chapter 7 common faults and solutions of charging pile

### 7.1、Fault handling scheme

Serial number	Common faults	Row except square method
1	When the gun is plugged in, the interface does not show that it is connected or the message "please start card swiping and charging" is not displayed	Please check whether the charging gun is reliably connected with the vehicle and whether the gun lock is locked.
2	Stop charging after a while	Generally, it is a communication problem, so when swiping the card, record it by yourself and change the gun for retry. If it occurs repeatedly, report it to the manufacturer in time.
3	Locking phenomenon	At the end of charging, remember to swipe the card for settlement. If there is a card locking phenomenon, please swipe the card at the last charging machine and unlock the last charging fee settlement.
4	Gun jumping phenomenon	When swiping the card, confirm that the IC card balance is sufficient. If the balance is insufficient during charging, the charging will be automatically terminated.
5	After charging, the gun is locked and cannot be pulled out	Restart the charging process and wait for the gun to jump after power failure. If this method still cannot be pulled out, contact the manufacturer for maintenance immediately.
6	When charging, the ammeter does not display the working current	Please check whether the phase line and neutral line of the electric energy meter are connected reversely or wrongly.
7	After power on, the display does not light up	If the indicator light is on and the display is not on, replace the display.
8	Ungrounded	Under the condition of normal grounding, 1. When the gun is not inserted, the auxiliary voltage is 12V and the blue light is on; 2. When inserting the gun, the auxiliary voltage is 6V and the green light is on.

## 8.2、LED color display status

Serial number	Charging pile status	Indicator color	Indicator dynamic
1	Standby	Blue	Chang Liang
2	Insert a gun	Green	Chang Liang
3	Charging	Green	Flash once in 1s
4	Full	Yellow	Chang Liang
5	Emergency stop press	Gules	Chang Liang
6	CP point abnormality	Purple	Chang Liang
7	Overvoltage and undervoltage	Gules	Flash once in 1s
8	Ungrounded wire	Purple	Flash once in 1s
9	Overcurrent	Blue	Flash once in 1s
10	electric leakage	Red blue	Flicker alternately for 1s
11	Overtemperature	Red and green	Flicker alternately for 1s
12			
13			



## Chapter 9 maintenance of charging pile

### 9.1、Maintenance and service

Sunshade and rainproof measures shall be taken for the charging pile. It is recommended to install a canopy outdoors.

Regularly check whether all bolts in the charging pile are fastened, whether the connecting wire is loose, and whether the connection is not firm. Check whether there is a short circuit.

Pay attention to lightning protection to ensure effective shielding and reliable grounding of charging pile.

When in use, try to control the output voltage and current of the charging pile within the nominal range to ensure that the charging pile works with maximum efficiency.

When the machine body is out of use, stop the charging output first, then wrap the cable and put it back in place.

Note: during the transportation of the charging pile, the charging pile shall be firmly packed and the loading and unloading direction shall be marked. It is forbidden to turn the charging pile upside down.

Storage and transportation; Corresponding fastening measures shall be taken to prevent strong vibration and turbulence from damaging the outer packaging of the equipment.

**Note: non professional personnel are strictly prohibited to dismantle and move equipment components.**

## Chapter 10 warranty card

### Warranty regulations

- 1、 The warranty period of this product is 1 year.
- 2、 The 7x24 hour service line (400-805-5677) responds at any time.
- 3、 The customer makes an appointment for on-site maintenance service within 48 hours of warranty.
- 4、 During the warranty period, the faults generated under normal use according to the instructions (determined by the official staff of the company) shall be repaired free of charge.
- 5、 Except for the following problems, the charging equipment can enjoy the above relevant warranty terms:
  - 5.1 This guarantee and valid purchase certificate cannot be provided;
  - 5.2 Exceeding the warranty period specified by the manufacturer;
  - 5.3 There is no warranty certificate and valid invoice, or the contents on the warranty certificate are inconsistent with the physical identification of the repaired goods or altered;
  - 5.4 Damage caused by failure to use, maintain or declare in accordance with the requirements of the product manual;
  - 5.5 Damage or failure caused by foreign matter entering;
  - 5.6 Failure caused by products not manufactured by the company;
  - 5.7 Damage caused by dismantling by a person who does not undertake the three guarantees repair;
  - 5.8 Damage caused by force majeure (such as lightning, high voltage, earthquake, fire, flood and other natural disasters);
  - 5.9 Failure and damage caused by other unavoidable external factors;
  - 5.10 Improper use may result in water ingress into the equipment or damage caused by other solutions;
  - 5.11 Damage caused by voltage when using a power supply other than the specified one.

6、 We only make the above warranty and do not make any other express or implied warranty (including the implied warranty of merchantability, rationality and adaptability to a particular and application). The company will not be liable for any special occasional or indirect damages in the contract, civil negligence or other aspects.

7、 This guarantee is valid only in the mainland of the people's Republic of China.

## Customer link

Product name: \_\_\_\_\_ Factory number: \_\_\_\_\_

Product model: \_\_\_\_\_

Date of production: \_\_\_\_\_ year \_\_\_\_\_ month \_\_\_\_\_ day (subject to  
commissioning acceptance)

Manufacturer's seal:

Customer name: \_\_\_\_\_ Contact number: \_\_\_\_\_

Customer signature: \_\_\_\_\_

Customer address: \_\_\_\_\_

1、Warranty content: \_\_\_\_\_ After sale: \_\_\_\_\_

Customer signature: \_\_\_\_\_

2、Warranty content: \_\_\_\_\_ After sale: \_\_\_\_\_

Customer signature: \_\_\_\_\_

3、Warranty content: \_\_\_\_\_ After sale: \_\_\_\_\_

Customer signature: \_\_\_\_\_

## Qualification

Name AC charging station

Model number \_\_\_\_\_

Inspectors \_\_\_\_\_

Production Date \_\_\_\_\_