

HARUI AC charging pile (21KW European standard) Product instructions for use

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Zhongshan Harui Trading Company LTD

(Please read this detail instruction before using this machine)

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Chapter I meets the standards

The design of HARUI wall-mounted AC charging pile meets the following standards:

- (1) IEC 61851-1 *Contive charging systems for electric vehicles-Part 1: General Requirements*
- (2) IEC62196-1/2 *Plugs, Sockets, Vehicle Connectors and Vehicle Inlets, Electric Vehicles, Part 1 Conducted Charging: General Requirements*

Chapter II Scope of application

HARUI wall-mounted AC charging pile with car charger electric car, and provide AC charging, suitable for a wide range of scenarios

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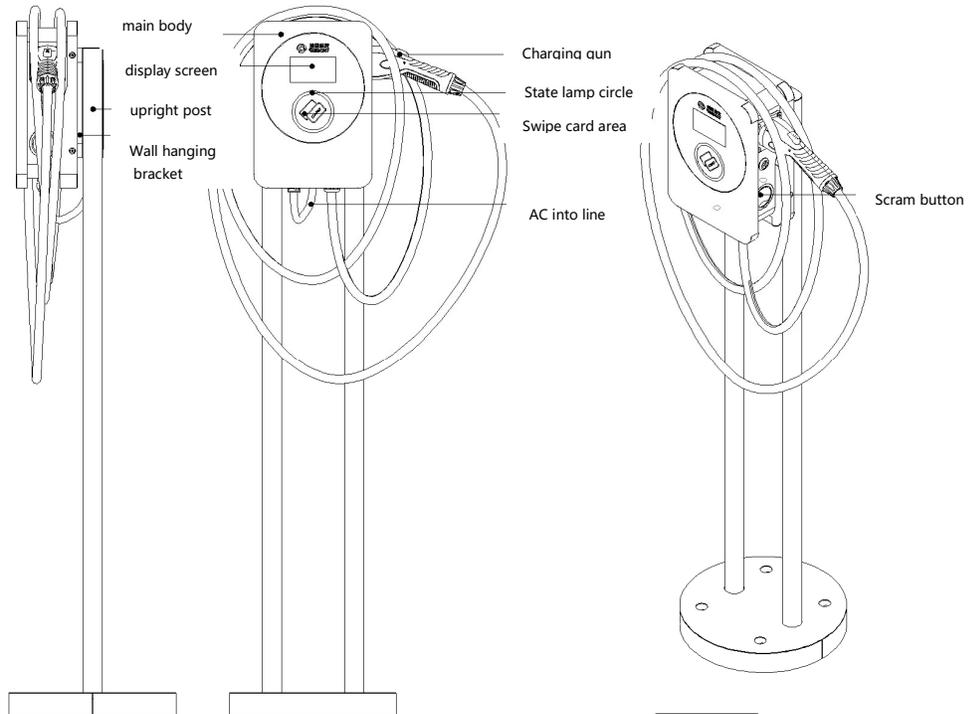
- (1) All kinds of large, medium and small public parking lots;
- (2) New commercial district parking lot;
- (3) Company unit and the internal parking lot of the community;
- (4) Private owned parking space ;
- (5) Centralized and decentralized charging stations, etc.

Chapter III Product Appearance Overview

3.1 Product overall display



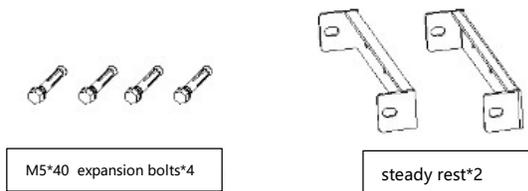
3.2 Product parts introduction



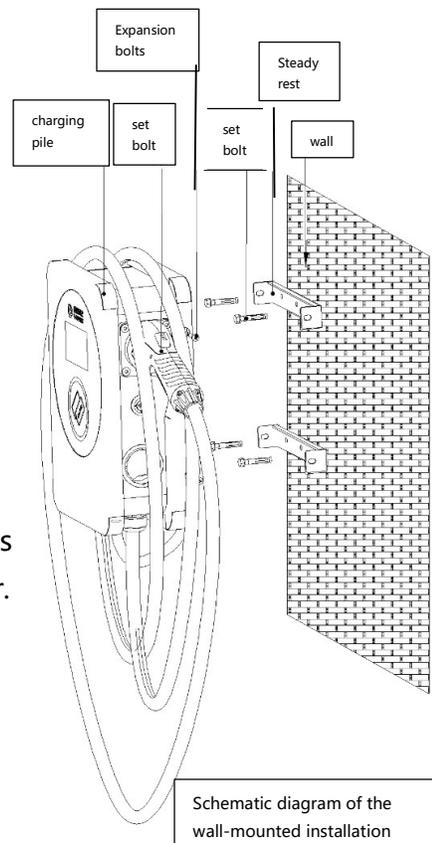
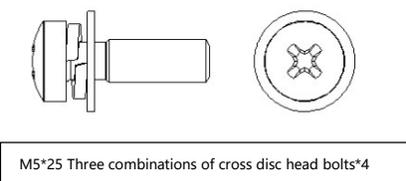
3.1 Equipment installation and fixing

3.3.1 wall-mounted installation

Step 1: 4 M5 * 40 expansion bolts are used to fix between the wall hanging bracket and the wall;

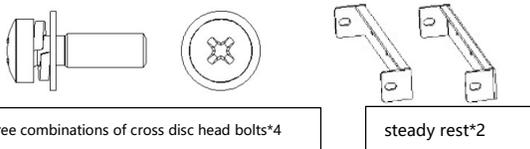


Step 2: Hang the charging pile on the wall-mounted bracket;
 Step 3: Use 4 M5 * 25 three combination cross disc head bolts to hang the charging pile and the wall bracket Fixed together.



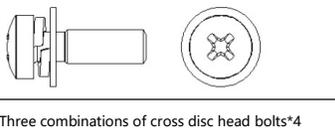
3.3.2 Installation mode of upright post

Step 1: Use 4 M5 * 25 bolts between the wall hanging bracket and the column;



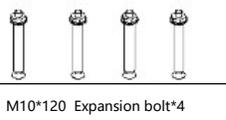
Step 2: Hang the charging pile on the upright post;

Step 3: Use 4 M5 * 25 three combination cross disc head bolts to hang the charging pile and the wall bracket Fixed together.



Step 4: through the embedded cable from the bottom of the Upright post and through the waterproof box from the top of the column (For subsequent input power supply).

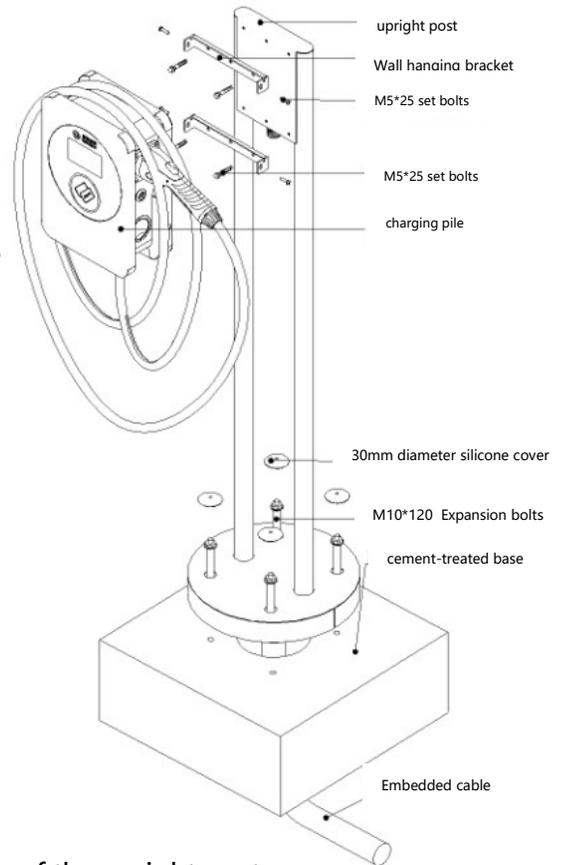
Step 5: Use 4 M10 * 120 expansion bolts to fix the column and the cement base in harness.



Step 6: use the diameter of 30mm to block the four fixed holes of the upright post.

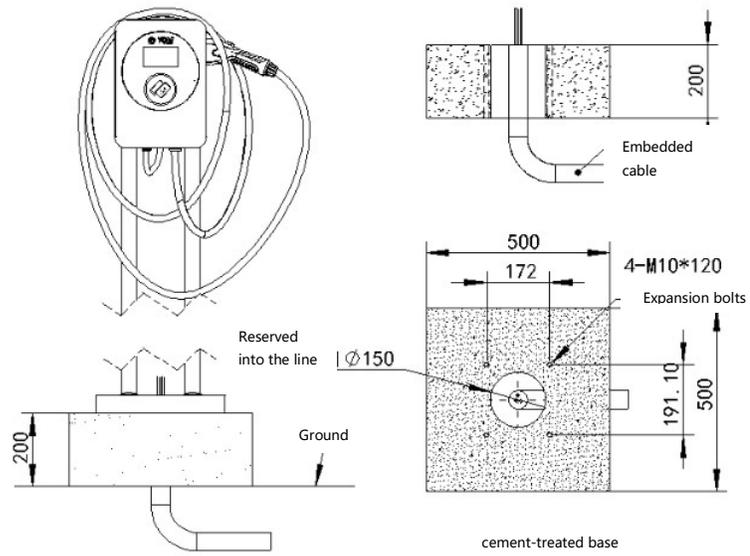


30mm diameter rubber plug*4



Schematic diagram of the upright post installation

Note: The diagram of cement base is as follows.



Chapter IV Main features of products

This AC charging pile is a new product designed according to customer needs, which has the characteristics of small size, light weight, high charging efficiency, small footprint, and fashionable appearance and fashion.

Charging pile design has a variety of perfect protection, including AC leakage protection, lightning protection, charging current over current alarm and protection, charging voltage over voltage, under voltage protection, emergency stop protection, etc.

The AC charging pile has the following functions and characteristics:

- (1) **Secure and stable:** The wall-mounted AC charging pile has reliable electrical safety protection function, can be anti-theft, dust proof, waterproof, stable operation, can ensure long-term reliable operation. The protection level meets the outdoor IP54 level;
- (2) **System integration:** The functions required by the whole charging pile, such as charging function, man-machine operation and safety protection function, are highly integrated. The system structure is simple, easy for production, and the operation is stable and reliable;
- (3) **Easy to use:** Man-machine interface is kind to user, simple and clear, easy to operate;
- (4) **Small footprint, convenient installation:** The area and space occupied by the whole charging pile are very reasonable, which improves the utilization rate of space and facilitates the installation and application in the area with tight land use;
- (5) **Connection confirmation:** Can tell if the charging connector is properly connected. When correctly connected, the charging interface can output the power supply. When the charging joint is abnormally disconnected, the AC charging pile will immediately stop the output to ensure personal safety and charging safety;
- (6) **Multiple protection:** The charging pile has the function of output over voltage, under voltage and overload protection. When the charging voltage exceeds the over voltage protection value or falls below the under voltage

protection value, the charging pile stops charging to protect the charging equipment. When the charging current exceeds the load current fixed value, the alarm signal is sent out and the charging power supply is automatically cut off;

(7) **Charging pile has the function of short-circuit and leakage protection;**

(8) **Controller three prevention (moisture, mildew, salt spray) protection and rust protection:** The printed circuit board, connector and other circuits in the pile are treated against moisture, mildew and salt spray, to ensure that the charging pile can operate normally in the outdoor humid and salt-fog environment. The charging pile shell and the exposed iron support and parts adopt double-layer anti-rust measures, and the non-iron metal shell has been used with anti-oxidation protective film or anti-oxidation treatment;

(9) **Appearance is beautiful:** The overall appearance design is simple and generous, can be customized various styles theme mask .

Chapter V: Product Performance Parameters

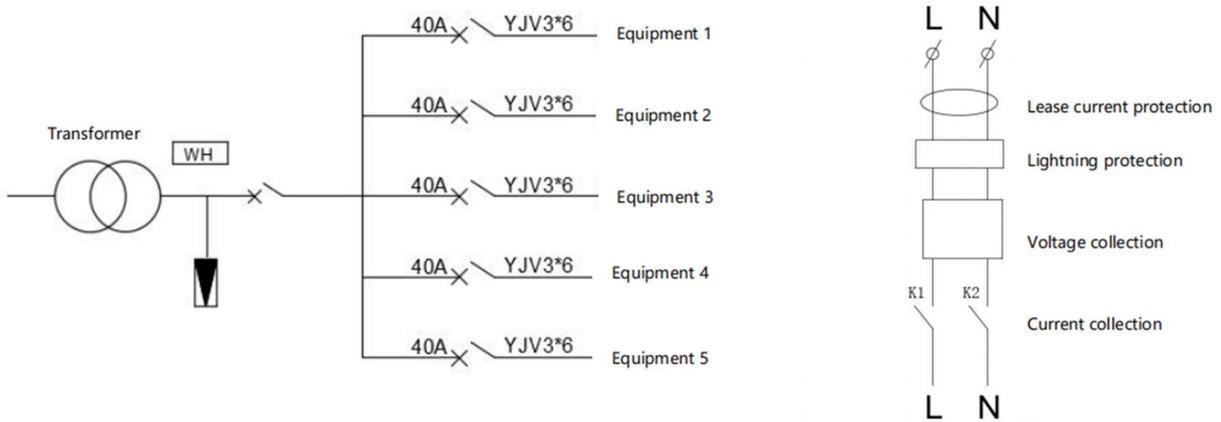
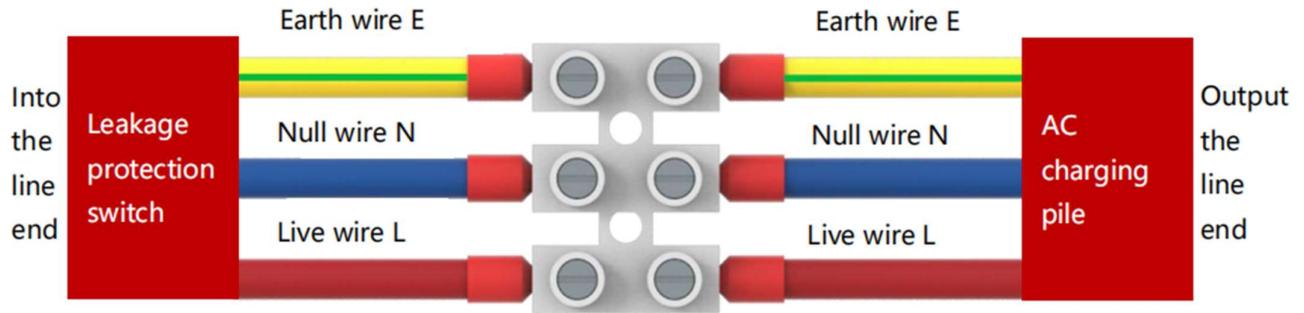
Item	The parameter name	Qualification		Remarks
Electrical parameters	Input voltage	1P+N+PE	3P+N+PE	
	Rated input voltage	AC220V±15%	AC380V±15%	
	Maximum power	7kW	21kW	
	Rated operational current	32A	32A	
	Incoming frequency	50Hz/60Hz		
	Rated output voltage	AC220V±15%	AC380V±15%	
	Standby power consumption	<6W		
Environment pointer	Applicable scene	Inside / outdoors		
	Temperature	-30°C~+55°C		
	Humidity	5%~95%No condensation		
	Height	<2000m		
	Levels of protection	IP54		
	Cooling-down method	Natural cooling		
	Standard	IEC61851-1,IEC62196-1/2,SAE J1772-2017		
	MTBF	100,000 hours		
Appearance structure	Case material	Metal plate		
	Equipment size	350*248*128mm(L*W*H)		
	Way to install	Wall-mounted type \ post type		
	Assembly	Wall-mounted backplane:350*248*128mm(L*W*H) (standard configuration) ; Upright post: 350*350*1400mm (L*W*H) (Need to purchase separately)		
	Go line way	Down and down		
	Output interface	Type1/Type2		

	Cable length	Customizable	
Safety design	Over voltage protection, under voltage protection, over current protection, short circuit protection, leakage protection, grounding protection, over temperature protection, low temperature protection, lightning protection		

Chapter VI Product wiring diagram

6.1. Product wiring diagram

Before use, Make sure the correct AC wiring is shown in the following figure before using. After confirmation, the inlet switch is closed.



6.2. Cable and switch configuration table

Cable and switch configuration table			
Product type	Power rating	Cable specifications	Switch specifications
AC charging pile	3.5KW	YJV-3*4	16A(2P)
	7KW	YJV-3*6	40A(2P)

Chapter VII Instructions for products

7.1. For non-internet-connected devices

After the gun connection, operate according to the prompts;

7.2. For Nettable devices

The charging mode is selected according to the charging pile model or the operation instructions (swipe card, scan code), and operate according to the equipment prompts.

Chapter IX After-sales warranty

8.1 Warranty conditions

- (1) Due to transportation reasons, the user found that the product or accessories are damaged when unpacking the inspection;
- (2) The user shall fully comply with the installation, storage and use rules specified in this specification but the quality problems arose.

8.2 Term of service

The warranty period is subject to the sales contract signed.

8.3 Warranty method

- (1) Within the warranty period, the manufacturer is responsible for the replacement or repair free of charge;
- (2) If the warranty period exceeds, the user should negotiate with the manufacturer to pay for replacement or repair.

8.4 Liability exemption

The following circumstances are not covered by the company warranty:

- The whole machine and parts have exceeded the warranty period;
- "Product damaged during transportation" caused by user reasons;
- The equipment operates in very harsh conditions beyond those stated in this manual;
- Machine failure or damage caused by installation, repair, changing or disassembly by non-company service personnel;
- Any scope beyond the scope of installation and use specified in the relevant national standards;
- Man-made damage caused.

If the above situation causes product failure and the customer requests maintenance, the company will evaluate and determine whether we can assist in providing paid services.

The content of this manual is subject to change without notice, the final interpretation right belongs to Zhongshan Harui Trading Company LTD.



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