

AC Charging pile User's Manual



EASY CHARGING

Welcome

Thank you for choosing Easy Charging AC Charging Station .

This EV charger supports smart charging with a smart control APP, via optional WIFI or blue-tooth, includes remote start / stop, reservation, set output current, monitor charging status etc.

Please use your SMART phone scan the following QR code to download the latest APP.



APP

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Easy China nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein. If you have any suggestions for improvements or amendments or have found errors in this publication, please notify us.

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All pertinent state, regional, and local safety regulations must be observed when installing and using this product. For reasons of safety and to help ensure compliance with documented system data, only the manufacturer should perform repairs to components.

When devices are used for applications with technical safety requirements, the relevant instructions must be followed.

Failure to use Easy Charging software or approved software with our hardware products may result in injury, harm, or improper operating results.

Failure to observe this information can result in injury or equipment damage.

Safety Information

Easy Charging Co., Ltd. All rights reserved.

Safety Information

Before using or maintaining this product, it is important to read the following safety instructions. Failure to follow and implement all the specified instructions and procedures, will invalidate the warranty and as such Easy Charging will not be liable for any .claims.

DANGER

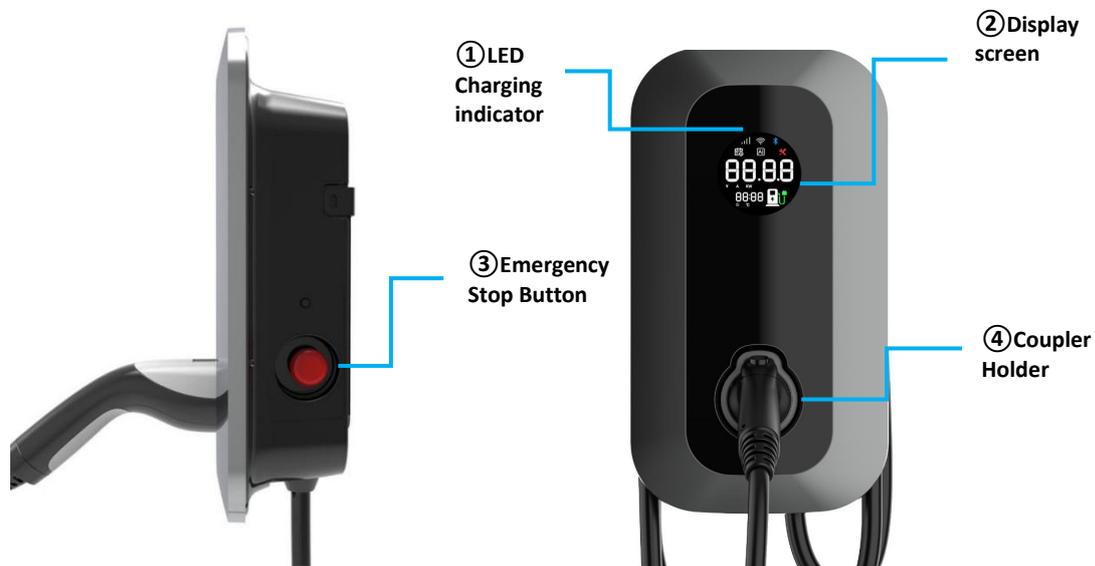
- Do not open the charger.
- Do not use the charger if it is damaged.
- Do not use an extension lead on the charging cable.
- Do not touch or insert foreign objects into the plugs.
- Do not install the charger near flammable, explosive, or combustible materials.

WARNING

- All work on the equipment must only be carried out by qualified personnel who have read and fully understood all safety information and installation requirements contained in this manual.
- The charger must be out of reach from children.
- EV charger must be connected to a protective earth conductor.
- The electrical installation must comply with all local applicable safety requirements, standards and guidelines.
- No modifications must be made to the EV charger.
- Components should not be changed or replaced by the end-user or unqualified personnel.

1. Product Overview

AC Charging Pile developed by Easy Charging Co., Ltd., creates smart, stable and reliable charging experience for electric vehicles owners.



1.1 Main features of products

- ① LED Charging indicator: Blue – Standby; Green (flashing) – charging in progress; Red – Error.
- ② Display screen: displays the status and parameters of charging station.
- ③ Emergency stop button: Press down this button in case of emergency.
- ④ Coupler holder: place the charging coupler head to the coupler holder when the charge station is not in use.

2. List of Accessor



3.Main Technical Parameters

Product model	ZAA411C-CS
Product name	11.5KW AC Charging Pile
Case Material	PC+ Fireproof and Flame Retardant
Product size	W8.7*D4*H16 inch
Wire-in	Bottom feed
Net weight	20 pounds
Cable length	23. feet
Input voltage	AC 100V-240V±20%
Input frequency	60±3Hz
Rated power	11.5KW
Output voltage	AC 240V±20%
Output current	48A (max)
Standby power consumption	<5W
Working temperature	-20°C ~ +50°C
Storage temperature	-40°C ~ +80°C
Working altitude	<1.2mile
Ingress Protection	TYPE 3R
Cooling mode	natural cooling

Safety standard	UL 2231,UL 2594
Warranty period	2 Years
Special protection	UV protection design
OVP , UVP, OCP, Leakage protection, Earthing reminder, temperature protection, waterproof protection, power-off protection, data protection.	

Insulation resistance: the insulation resistance between input loop and ground, output loop and input to output of charging station is $\geq 10M\Omega$.

4. Installation Instructions

WARNING

All work on the equipment must only be carried out by qualified personnel who have read and fully understood all safety information and installation requirements contained in

4.1 Installation environment requirements

4.1.1 This AC smart charging stations are suit for outdoor application with its TYPE 3R structure.

4.1.2 Please ensure that the Usage temperature is in the range of -20°C to $+50^{\circ}\text{C}$.

WARNING

Do not mount the EV charger in areas containing highly flammable materials or gases.
Do not mount the EV charger in potentially explosive atmospheres.

4.2 Before Installation

4.2.1 Easy intelligent AC Charging Pile can be installed on the wall or bracket according to the requirements.

4.2.2 Make sure appropriate MCB is installed at upstream of AC power supply to the charger.

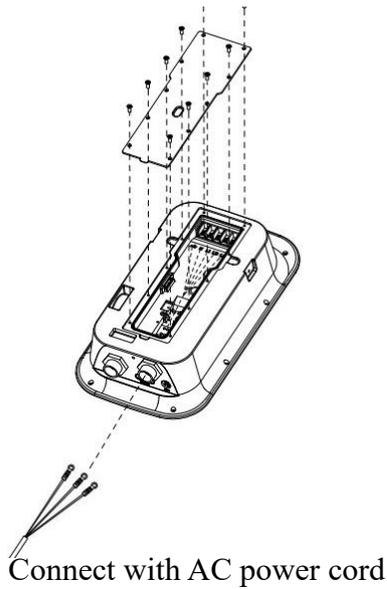
4.2.3 Use protection. The selected circuit protection device must integrate the appropriate residual current device (RCD) and the corresponding electrical load overcurrent protection device.

4.2.4 Use copper cables that comply with local wiring regulations. The selected cable must be able to withstand a continuous load of up to 50A for each period.

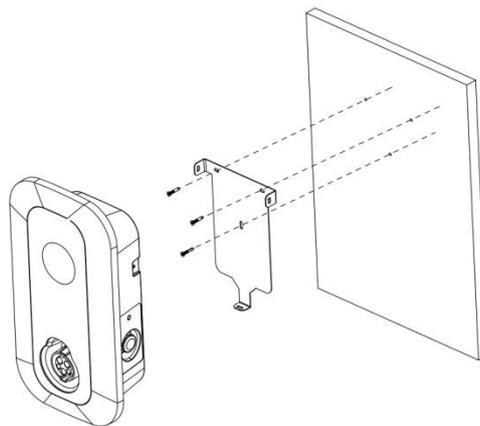
4.3 Wall mounting

4.3.1 Remove 10 x M3x0.3inch screws on the back cover, connect AC power supply cord to the corresponding terminals labeled L, N and PE.

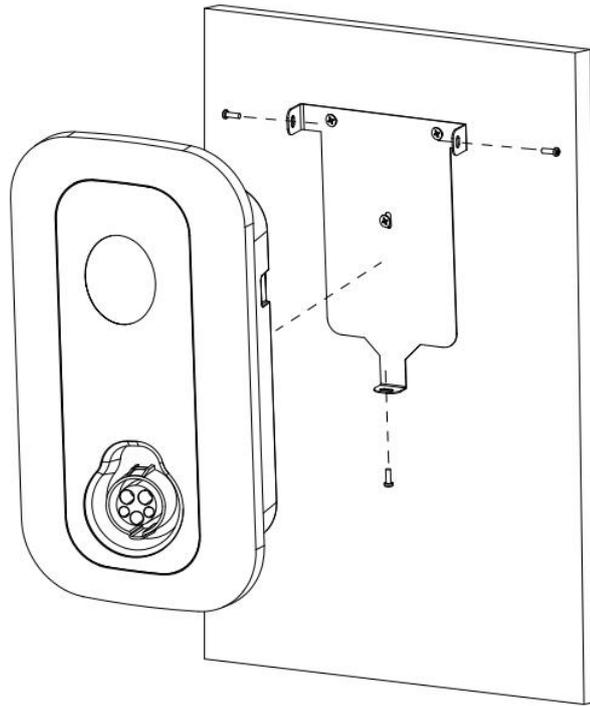
Tighten cable gland and assemble the back cover, tighten 10 x M3x0.3inch screws.



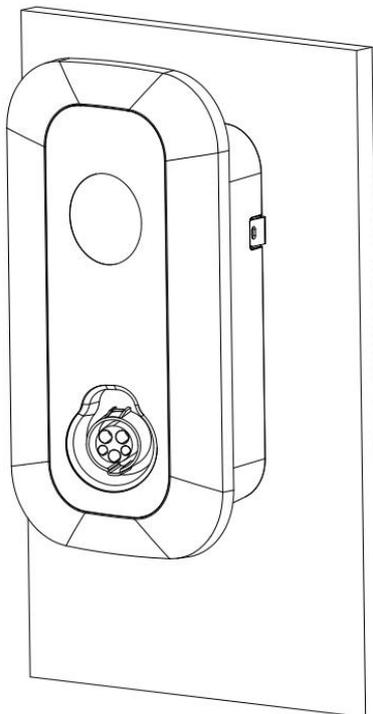
4.3.2 Use the mounting plate as template to position the holes on the wall, drill three ϕ 0.1inch holes at depth of 1.1 inch. Fix the mounting plate on the wall with 3 x M4 x 0.8inch screws.

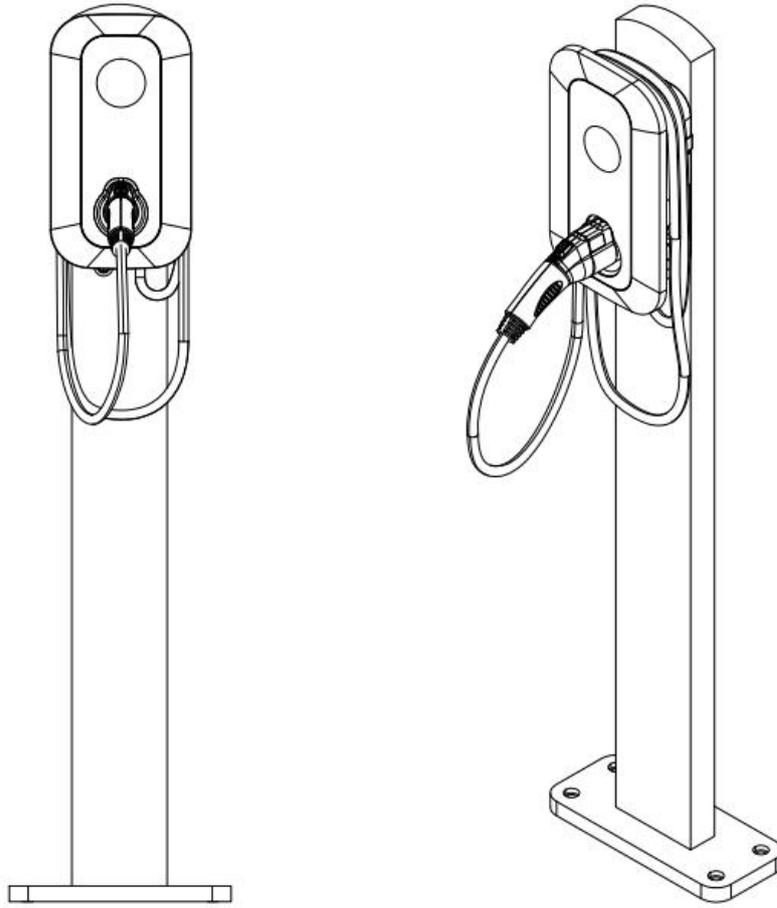


4.3.3 Fix the charger on mounting plate with 3 x M4 x 0.4 inch screws.



4.3.4 The final effect picture after fixing the charging pile.





5 Smart Phone APP User Guide (with optional WIFI/Bluetooth module)

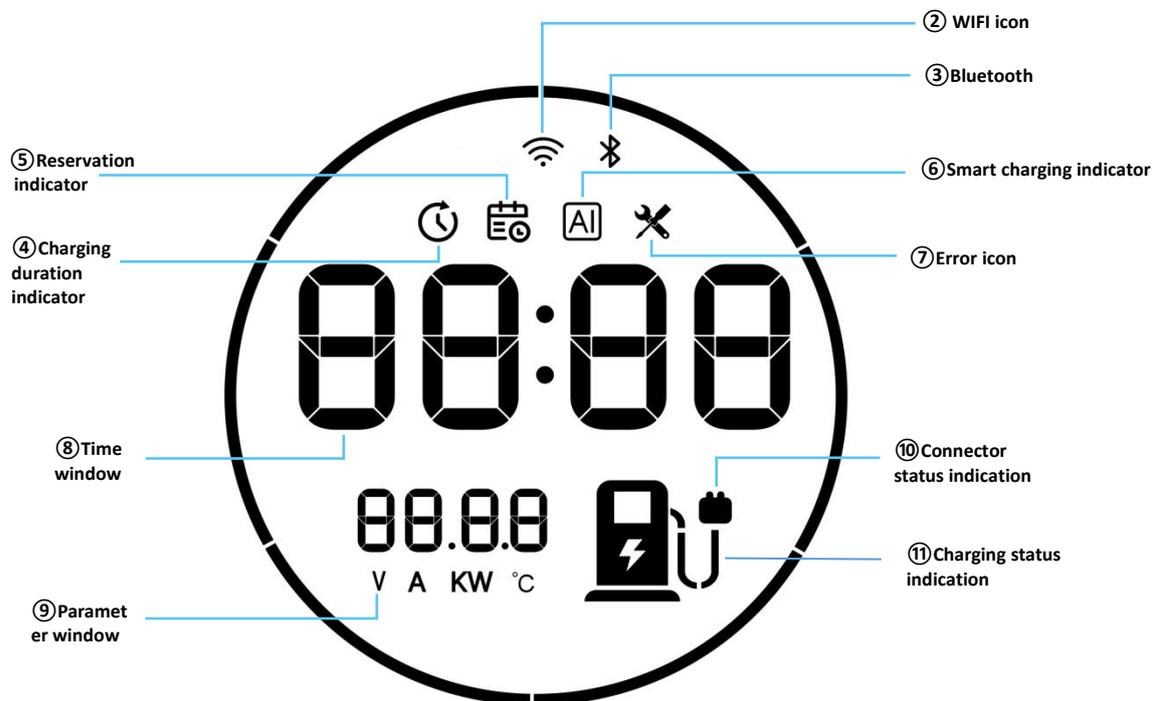
5.1 Please use your smart phone to scan the following QR code to obtain the APP user Guide.



APP user Guide

6 Charger User Guide

6.1 The LCD Displays ICONS Function.



6.1.2 WIFI icon: The icon lights up after successful connection with the WIFI router.

6.1.3 Bluetooth icon: The Bluetooth icon lights up after successful connection with Bluetooth remote control or smart phone.

6.1.4 Charging duration indicator: the icon lights up when charging in progress, and the main time window displays the charging duration (hours: minutes).

6.1.5 Reservation indicator: lights up when the charger is set to reservation charge mode via APP.

6.1.6 Smart charging indicator: When the APP has set smart charging, the icon lights up. The system will automatically adjust the charging power according to the time set by the user.

6.1.7 Error icon: when the equipment is fault, the icon lights up and the error code is displayed in the time window.

6.1.8 Time window: display charging time parameters or error code.

6.1.9 Parameter window: displays the charging voltage, current, power, and the temperature in the charging station.

6.1.10 Connector status indication: the icon flashes when it is not connected to the EV, and the icon is always on when it is connected to EV.

6.1.11 Charging status indication: 3 icons are always on when charging is not in progress, and the flashing light indicates charging in progress.

6.2 Charging station operation sequence

6.2.1 Ensure the Emergency Stop Button is released.

6.2.2 Power-on the charger, wait until the self-test is completed. The LED indicator turns blue when charger is standby.

6.2.3 Plug the charging gun into the car

6.2.4 With the default plug-and-charge setting, the car will charge itself and the LED will turn green (blink).

6.2.5 After the charging is completed, the LED light will turn blue, unplug the charging gun from the electric vehicle, and insert it back into the fixed base of the charging pile..

You may end the charging session from your EV (interface varEasy from different EV models);

Or use smart phone APP or Bluetooth remote controller to stop the charging session (when optional WIFI/Bluetooth module is supplied);

Or swipe RFID card to stop charging session (when RFID module is supplied).

6.2.6 In case of abnormal situation during charging, press the emergency stop switch immediately,

Attention:

Don't unplug the EV Charger before the charging is completed, there's risk of electric shock.

7 Error Code

error code	Fault description
E01	Grounding fault
E02	leakage current protection
E03	Input overvoltage
E04	Input undervoltage
E05	overcurrent protection
E06	Charging coupler abnormal.
E07	Emergency Stop Button is pressed down
E08	Coupler locking mechanism abnormal
E10	Temperature sensor 1 fault (reserve)
E11	Temperature sensor 2 fault
E12	Temperature sensor 3 failed.

E13	Charging area ventilation error
E14	Leakage protector calibration failed
E20	Relay open circuit
E21	Relay adhesion
E22	Relay overtemperature
E23	reserve
E30	EEPROM
E31	MCB communication failure

8 Warranty

Your Easy Charging AC Charging Pile has the benefit of our guarantee, which covers the cost of repairs for 24 months from the date of installation or 27 months from the date of shipment, depending on which comes first. This gives you the reassurance that if, within that time, your charger is proven to be defective because of workmanship or material defect we will, at our discretion, either repair or replace the charger at no cost to you.

Warranty Limitations:

The Warranty is valid only for products purchased either directly from Easy Charging or from an authorized reseller of Easy Charging Co., Ltd.

- 1) Any defect or damage which is a result of repair, alteration, or modification performed without the written permission of Easy Charging ;
- 2) The use of parts not manufactured, sold or approved by Easy Charging in any replacement or repair;
- 3) Cases where the Easy Charging Product is operated on an electrical supply which is not in accordance with the ratings specified in writing by Easy Charging Co., Ltd.;
- 4) The Easy Charging Product is damaged as a result of incorrect installation or being used for a purpose for which it is not designed, sold or otherwise not in accordance with any written specified instructions for use or Easy Charging Product installation performed by third party Easy Charging not approved by CUSTOMER or Easy Charging Co., Ltd.;
- 5) If changes occur in the condition or operational quality of the Easy Charging Product due to incorrect storage, transportation, mounting, climate or any other influence outside the control of Easy Charging Co., Ltd.;
- 6) The Easy Charging Product is further damaged as a result of operating the product when it was known to be defective;
- 7) Easy Charging Product parts requiring replacement due to normal wear and tear including the replacement of the following parts: cables, couplers, and user interface;
- 8) When Easy Charging Product damage is caused directly or indirectly by utility supply problems, insect or animal attacks, lack of user care, vandalism, incorrect power supply, electrical storm damage, flooding or any other weather phenomena.

- 9) Unauthorized operation or modification of the Easy Charging Product or any disregard of the instructions contained in the User manual;
- 10) Any loss, damage, or destruction to the Easy Charging Product due to an event of force majeure that is an act of nature; and/or.
- 11) Any loss, damage or destruction to the Easy Charging Product arising from, or caused or contributed to by, the Customer's or End-User's negligence or the negligence of the Customer's agents or servants.
- 12) The firmware changes due to the modifications asked by the customer or changes in standards.

9 Recycling and Disposal

- 1) Disposal must be according to national and regional Regulations for electrical and electronic equipment respectively.
- 2) If the equipment is damaged, the old equipment and batteries must not be disposed of with household waste or large garbage..
- 3) Dispose of the packaging material in the region's usual collection container for cardboard, paper, and plastics.

FCC Caution.

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.