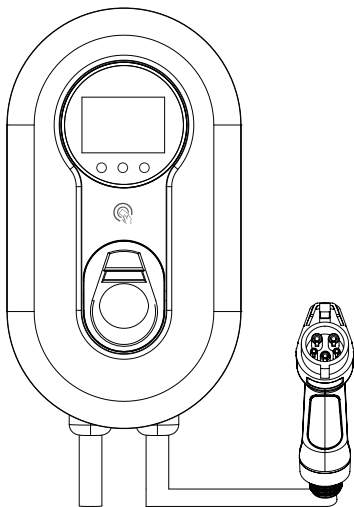


Smart EV Charger

User manual



Model

FE-WUS-B115D

Thank you for using the EV AC charging station from Fenergy!
Please read carefully before installation or usage.

1 Warranty

GuangDong Fenergy Technology Co., Ltd (Fenergy) warrants that products supplied to Customer pursuant to this Agreement / Contract should meet merchantable quality, all applicable safety standards and free from any defect of design, material and workmanship within the warranty period. The warranty period is Twenty-four (24) months since from the delivery date. The warranties does not include the damages resulted from inappropriate storage, incorrect installation, improper operation or bad environment.

Customers should give notice to suppliers within ten (10) days after discovered some or all products not comply with the warranty as set out. Customers should provide necessary assistance to Fenergy company for failure detection, Fenergy will make the response within 48 hours. Fenergy will analyze the fault reason and provide technical instruction for customer to repair products.

Customer can apply the spare parts from Fenergy for free in case replacements are required. A written claim report about fault description, serial number of products, photos of products and applied spare parts must be sent to Fenergy for verification. Fenergy can't accept the claim if modifications or reworking have been performed without Fenergy consent. Spare parts are offered for free within the warranty period. Overdue the warranty, all should be offered at customer's cost.

Faulted parts replaced by customer should be well stored and packaged with markings of fault description for further disposal by Fenergy. The faulted parts after repair and test can be treated as spare part to customer. Except as set forth herein, Fenergy provides no other warranties whether express or implied. The warranties apply only to the products which supplied by Fenergy.

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Due to the need for continuous improvement of the product, this information product is subject to physical objects, our company reserves the right to update our products.

2 Important Safety Information

Please read the instructions carefully before using this product. Please save the description below.

This manual contains important instructions. Should be followed during installation, operation and maintenance. please review all warnings and cautions before installing and using.

▲ Warning: When using this product, basic precautions should always be observed, including the following points.

Instructions Relating To Fire Or Electric Shock Risk

▲ Warning: Do not install or use this product near flammable, explosive, rough or combustible materials, chemicals or vapors.

▲ Warning: Before installing or cleaning this product, turn off the power on the circuit breaker.

warn

▲ Warning: This product may expose you to one or more chemicals identified by the national standard as causing cancer.

▲ Warning: When using this equipment in places where children are present, it should be strictly supervised.

▲ Warning: This product must be carried through a permanent wire system or equipment leads.

▲ Warning: Use this product only in accordance with the specified operating parameters.

▲ Warning: Do not spray water or other liquids directly onto the wallbox. Do not spray water on the charging handle or immerse the charging handle in liquid. Please put the charging handle in the protective seat to avoid unnecessary pollution or moisture.

▲ Warning: Do not use this product if it is defective, cracked, worn, cracked, or otherwise damaged, or if it does not work properly.

▲ Warning: Do not use this product if the flexible power cord or EV cable is frayed, cracked, or otherwise damaged, or if it is not functioning properly.

▲ Warning: Do not attempt to disassemble, repair, tamper or modify this product. This product is not a user serviceable device. For any repairs or modifications, please contact Fenergy.

▲ Warning: When transporting this product, please be careful. Do not subject it to strong force or impact or pull, twist, tangle, drag or step on this product to prevent damage to itself or its components.

▲ Warning: Do not touch the end of this product with your fingers or sharp metal objects such as wires, tools or needles. Warning: Do not insert fingers or foreign objects into any part of this product.

▲ Warning: Do not forcefully fold or apply pressure to any part of this product or damage it with sharp objects.

▲ Warning: Use of this product may affect or damage the operation of medical or implantable electronic devices, such as implantable cardiac pacemakers or implantable cardioverter-defibrillators. Before using this product, consult the manufacturer of the electronic device regarding the effect of charging on such electronic devices.

3 Precautions

- ⚠ Do not use a private generator as a charging power source;
- ⚠ The working range is -30°C~50°C, please do not operate it at temperatures over this range;
- ⚠ This product is strictly prohibited to be used after soaking in water, it can be used in normal rain, try to avoid using it in heavy rain;
- ⚠ If the charging gun cable of this product is damaged or the charging gun shell is broken, it is strictly prohibited to use it, please contact the after-sales service;
- ⚠ When using this product to charge, it is necessary to couple the gun head and the vehicle interface in place; the connection indicator light is on (green light on), indicating that the charging gun is connected to the vehicle well;
- ⚠ When using this product to charge, if there are children nearby, it is recommended to restrain the children reasonably, and it is strictly forbidden to operate or pull the product, or play around the product;
- ⚠ When using this product to charge, try to avoid exposing the charging gun to the rain to avoid unnecessary losses;
- ⚠ Do not touch metal conductors to avoid electric shock accidents when using high current during working;
- ⚠ The shell of the charging gun of the product is thermoplastic, and it should not be impacted by external force to avoid affecting the use;
- ⚠ Try to avoid coiling and winding of the gun wire when charging, and try to avoid the friction between the gun wire and the ground to damage the cable jacket;
- ⚠ After charging is completed, first disconnect the charging button on the car, then press the mechanical lock hook on the charging gun, remove the charging gun, and insert the charging gun into the gun mount. It is strictly forbidden to discard the charging gun on the ground to avoid damage to the charging gun ;
- ⚠ Incorrect installation and testing of this product may damage the vehicle's battery, components and/or the AC charging station itself. Any resulting damage is not covered by the warranty;

This product can be used indoors and outdoors.

NOTE: AC charging station must be installed by personnel who are trained and qualified to operate electrical systems.

Product Description

This product is mainly composed of charging station host, charging gun, wire, installation backplane, installation ingredients package, etc. It is a household electric vehicle charging equipment. The AC charging station is connected to the mains, the electric vehicle will be safely and reliably charged by the charging gun interface; to avoid affecting the product performance, should no acid and alkali and other corrosive gases in the surrounding; try to avoid direct rain or use in environments with high humidity, and should try to prevent damage from impacting the housing.

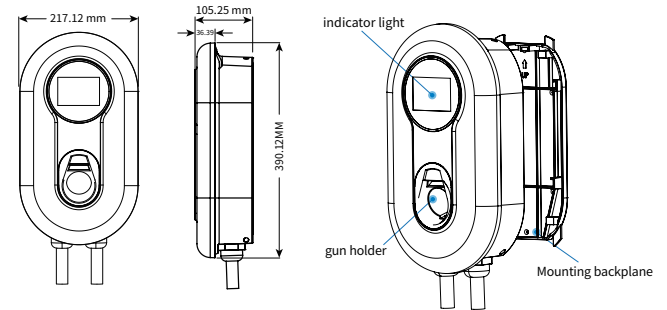
4 Product parameter description

S/N	Technical index	Parameter
1	Model name	FE-WUS-B115D
2	Rated input / output voltage	110-240V, 50/60Hz, 1-phase
3	Max charging current/ power	40A/48A adjustable
4	Standby power consumption	≤3W
5	Operating temperature / humidity	-30°C to +50 C /5%~95%
6	Storage temperature	-40°C to 80 C
7	Shell material	High strength PC
8	IP protection grade	IP65
9	Installation method	Wall-mounted/Floor-mounted
10	Function	CP abnormal protection, overvoltage protection, undervoltage protection, overcurrent protection, leakage protection, overtemperature protection, lightning protection
11	Working altitude	<2000m
12	Charging cable length	1M input cable, 7.4M output cable
13	Box size	570*460*220mm
14	Products size	327.65*163.05*29mm
15	Product Gross/Net weight	7-10kg/5-8kg
16	Certification	FCC, ETL, Energy star, CA65

5 Product function introduction

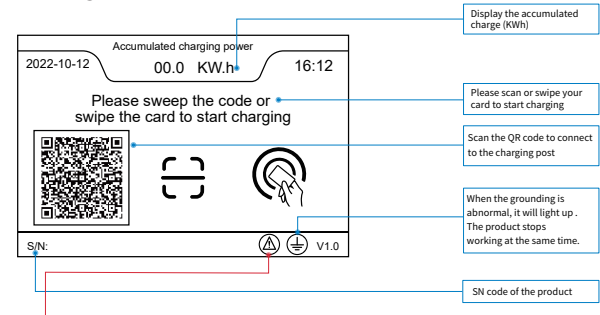
S/N	Function	Function introduction
1	Surge protector	In: 3kA, I _{max} :6kA
2	Leakage protection	When the leakage protection is started, it needs to be cut off the power outage and restart.
3	Overcurrent protection	When the current exceeds the early warning value, the charging pile cuts off the power output, restarts automatically after 5 seconds, and does not recover automatically after 3 cycles until you cut off the power and restart.
4	Overvoltage protection	The protection starts when the voltage exceeds 253V, and automatically recovers when the voltage is restored and stabilized.
5	Undervoltage protection	Start the protection when the voltage is less than 95V, and restore automatically when the voltage is restored and stabilized.
6	Overtemperature protection	Start the protection when the internal temperature of the EV charging station exceeds 75 °C.
7	Grounding protection	Grounding protection: start the grounding protection when the EV charging station ground wire is not properly connected to the ground.

6 External Structure



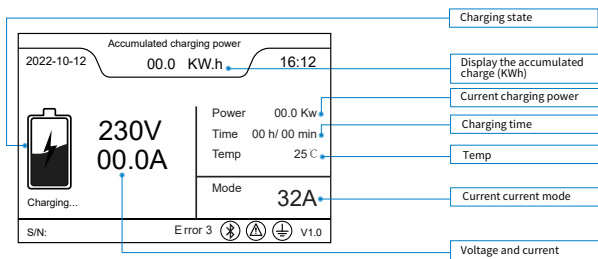
Product Description

Not charged, need to swipe card to start



⚠ Triangular sign is an alarm indicator; In case of over-current protection, over-voltage or undervoltage protection, over temperature protection, leakage protection, abnormal communication, switch adhesion, it will light up. At the same time, the position of the trolley icon will display the alarm fault code, and the product will stop working at the same time.

7 Charging state



8 Package Contents

Open the package, then check and verify following items after receiving the charger :

- ▶ Check the charger's external appearance. If there is any breakage or other damage, please inform the seller immediately.
- ▶ All accessories quantity and type as follows. If there is a shortage in the quantity of any item or if any items are missing, please contact the seller at once.

	User Manual (x1)	φ6 Expansion Pipe (x6)	M4*40 Screw (x6)
Wallbox(x1)			
	M5*40 Screw (x4)		Installation cardboard (x1)

9 Installation Preparation

• Tools required

Tool Name	Photo	Function
Multimeter		Check electrical connection and electrical parameter
Cross Screwdriver (PH2x150mm, PH3x250mm)		Tighten the screws
Electric drill		Hole on the wall
Diagonal Pliers		Cut cables

• Cables & Materials

Name	Specification	Quantity
Power supply cable	Single-phase or three-phase power supply cable	Depend on actual requirement

10 Installation Process

Installation Notice

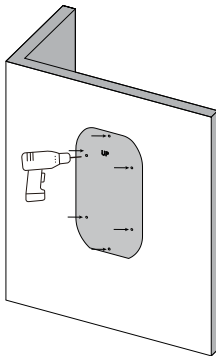
- ⚠ The AC charging station must be installed by personnel who are trained and qualified to operate electrical systems. Otherwise, the seller is not responsible for any consequences arising from the incorrect use of this equipment by the buyer. A qualified installer should have certified skills and knowledge related to the construction, installation and operation of this type of electrical device and received safety training to recognize and avoid the hazards involved.
- ⚠ All applicable local, regional, and national regulations must be applied when installing, repairing and maintaining this device.
- ⚠ RCD of the charger is intergrated 15mA AC, please install a Type A breaker outside.

Checks before starting the installation process

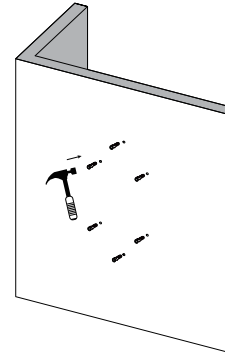
- ⚠ Ensure the charger's location allows good operational access for normal use and repair & maintenance.
- ⚠ Ensure the AC input components within the premise's power supply are correctly fitted and with required protection items before install the charger station.

Installation Procedure

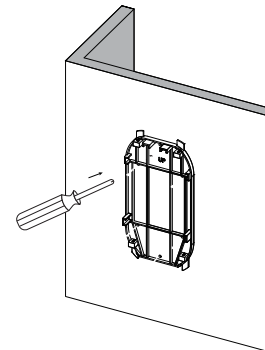
1. Please use a percussion drill to drill holes according to the cardboard positioning



2. Install expansion bolts(6*M6*60MM)

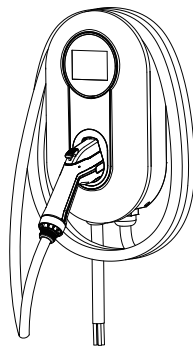
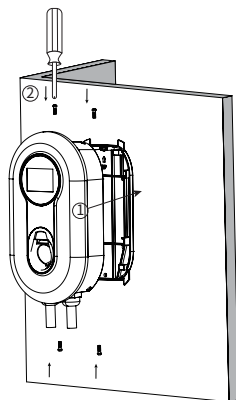


3. fix the Mounting backplane with self-tapping screws(6*M5*50mm)



11 Instructions

4. Align the main unit with the buckle on the back panel and install it, and then use screw to fix (4*M5*40)



1. When the machine is on standby normally, the indicator light is fixed blue.
2. Remove the charging gun from the holder, insert the charging gun into the car charging socket.
3. After the gun insertion completed, the vehicle automatically starts to charge normally, and the blue meteor light on.
4. The indicator light always turns green after the charge is completed.

LED Indicator Description

Number	Item	indicator light
1	Standby	Blue light always on
2	Charging	Blue meteor light on
3	Full charging	Green light always on
Number	Item	Explain
1	Error1	Over-temperature protection: When the temperature in the charger exceeds 75°C, the protection will be started. After the temperature is Below 65°C it will automatically recover.
2	Error2	Overvoltage or undervoltage protection: After the overvoltage or undervoltage fault disappears, it will automatically recover.
3	Error3	Overcurrent protection: When the current exceeds the warning value, the charger will cut off the power output, the output will be automatically restarted after 5s. If the current does't be normal value after three times, then need to be powered off manually and restarted for recovery.
4	Error4	Leakage protection: After the leakage protection is started, need to be powered off manually and restarted for recovery.
5	Error5	CP communication protection: After the protection is started, it is necessary to cutoff the power manually and check whether the charging gun is inserted in place or there are other circuit faults then restart manually to recover.
6	Error6	The relay switch is stuck: When the protection is started, need to be powered off manually and restarted for recovery.

12 List of Hazardous Substances

Name and content identification of toxic and hazardous substances or elements in the product							
S/N	Part Name	Cadmium (cd)	Lead (Pb)	HG (Hg)	Hexavalent chromium (Cr v)	polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
1	lower shell	○	○	○	○	○	○
2	Cover assembly	○	○	○	○	○	○
3	Exterior panel	○	○	○	○	○	○
4	Motherboard	○	○	○	○	○	○
5	Gun&wire	○	○	○	○	○	○
6	Gun hood	○	○	○	○	○	○
7	Backboard	○	○	○	○	○	○
8	Fastener	○	○	○	○	○	○
<p>○ Indicates that the content of the toxic and hazardous substance in all homogeneous materials of the component is below the limit specified in the RoHS standard;</p> <p>✕ Indicates that the toxic and hazardous substance contained in at least one homogeneous material of some components exceeds the limit specified in the RoHS standard.</p>							

After-sales service and guarantee

Thank you for choosing Fenergy products. When you have any performance failure that is not artificially damaged during the use of the products, you will enjoy the service promise of repair, replacement and return of Fenergy (hereinafter referred to as "three guarantees").

In order to protect your legitimate rights and interests, please take good care of three packets of vouchers, invoices or other purchase vouchers after purchasing Fenergy products. The validity period of the three packages of the product shall be calculated from the date on which you receive the product (hereinafter referred to as receipt of goods).

13 Service content

1. Within 7 days from the date of receipt, ensure that the goods received are in good condition, the packaging and accessories of the products are complete, and if there is a performance failure that is not artificially damaged, you can make a full refund at the invoice price, or replace the products of the same model and specification, or repair them free of charge.
2. From the 8th to 15th day from the date of receipt, when the product has a performance failure that is not artificially damaged, the product of the same model and specification can be replaced, or repaired free of charge.
3. Free repair within 24 months from the date of receipt. During the free repair period, products that can not be used normally after two repairs are confirmed by Fenergy test, you can replace the products of the same model and specification free of charge with the valid maintenance record. The seller is responsible for the replacement of the product.

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be located or operating in conjunction with any other antenna or transmitter.

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 and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.