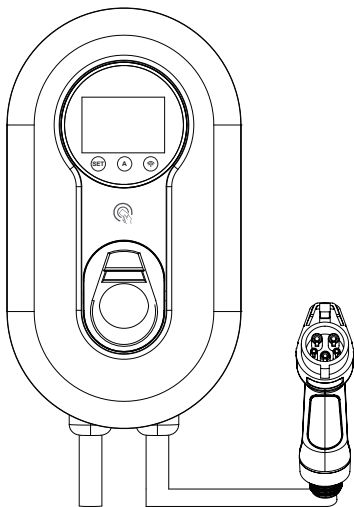


# AC EV CHARGING STATION

## User manual



### Model

FE-W-US-B96A	FE-W-US-B96B	FE-W-US-B115D
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Please read carefully before installation or usage.

# 1 Warranty

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 Twelve (12) months since from the delivery date. The warranties does not include the damages resulted from inappropriate storage, incorrect installation, improper operation or bad environment.

# 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.

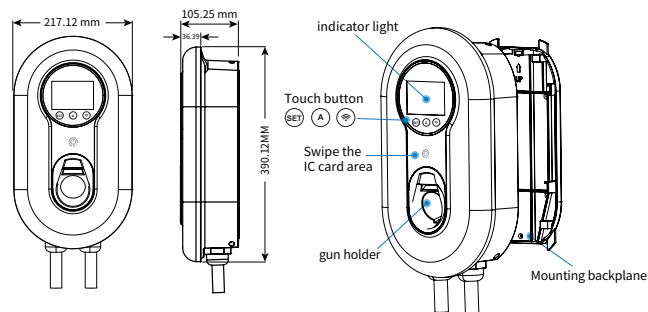
## 4 Product parameter description

S/N	Technical index	Parameter		
1	Model name	FE-W-US-B96A	FE-W-US-B96B	FE-W-US-B115D
2	Rated input / output voltage	240V,50/60Hz, 1-phase	240V,50/60Hz, 1-phase	110-240V,50/60Hz, 1-phase
3	Max charging current/ power	8-40A adjustable,Max 9.6KW		8-48A adjustable, Max 11.5KW
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	0.5M,NEMA14-50P 7.4M output cable	0.5M,NEMA6-50P 7.4M output cable	0.8M,Hard-wired 7.4M output cable
13	Box size	530*430*230mm		
14	Main unit size	390*217*107mm		
15	Product Gross/Net weight	7-10kg/5-8kg		
16	Certification	FCC, ETL, CA65		

## 5 Product function introduction

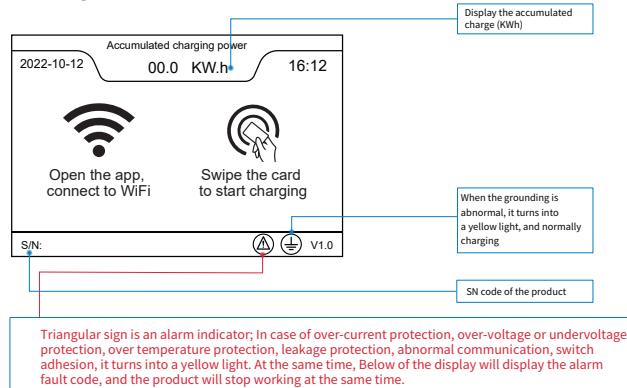
S/N	Function	Function introduction
1	Residual current detection	Ac leakage protection automatically detects the AC mismatch between the power supply wires, which indicates that the current flows through the grounded (PE) wire. When the current is greater than 20 mA (AC), the AC residual current fault protection device will trip.
2	Surge protector	In: 3kA, I <sub>max</sub> :6kA
3	Leakage protection	When the leakage protection is started, it needs to be cut off the power outage and restart.
4	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.
5	Overvoltage protection	The protection starts when the voltage exceeds 274V, and automatically recovers when the voltage is restored and stabilized.
6	Undervoltage protection	Start the protection when the voltage is less than 85V, and restore automatically when the voltage is restored and stabilized.
7	Overtemperature protection	Start the protection when the internal temperature of the EV charging station exceeds 75 °C. When the temperature drops below 65 °C, it automatically resumes normal charging.

## 6 External Structure

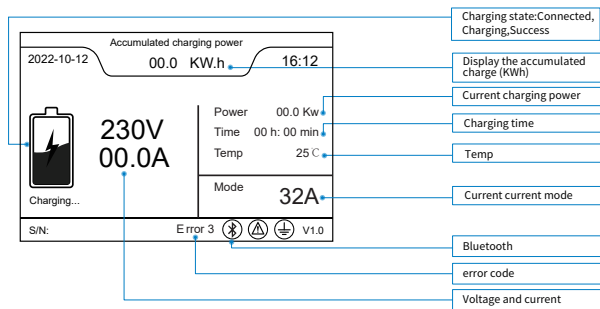


### Product Description

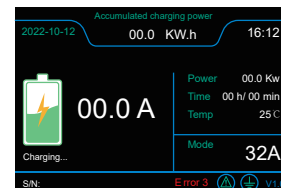
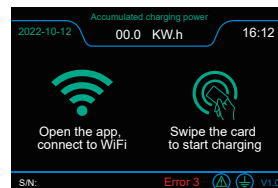
#### Not charged, need to swipe card to start



## 7 Charging state



1. Power on the Charger plug and insert it into the distribution network or swipe the card to charge



## 8 Connecting to WiFi

### American standard WIFI charging pile touch screen button description

SET Confirmation button    A Current adjustment button    WIFI Reset WIFI network key

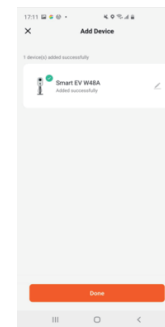
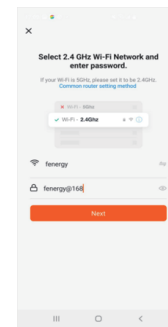
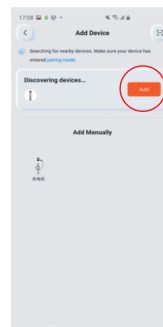
① Long press the "A" key for 1 second, after the current number jumps, lightly touch the A key to adjust the current, and finally press the SET key

② Long press the WIFI button for 5 seconds to reset the distribution network. WIFI button

- When the WIFI button is blue and jumps, it means waiting for the distribution network
- When the WIFI button is green, it indicates successful network distribution
- When the WIFI button is yellow and stationary, it indicates a network allocation failure. If you need to configure the network again, please press and hold the WIFI button for 5 seconds
- If the user loses the IC card, the user can purchase a regular white card and use the product to learn the program. The method is: Long press the SET button for 3 seconds to learn the card (place the card in the swiping position. When writing the card, please ensure that the charging gun is inserted into the charging socket of the car.)

2. Connect to WIFI, turn on Bluetooth on your phone, open the app to register and log in to the distribution network mode (two distribution network modes: Bluetooth distribution network and AP distribution network)

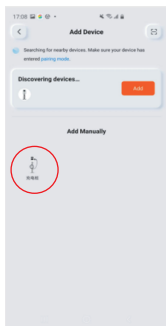
• Bluetooth distribution network



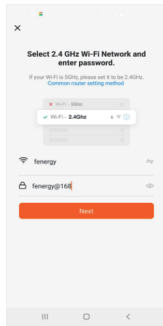
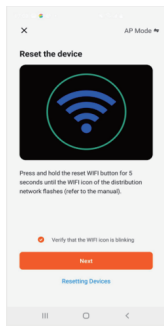
### Distribution network process

IOS download the APP in Apple App Store Name: "EV energy", Android download the APP in Google App Store Name: "EV energy"; The charging pile uses 2.4G WIFI network.

## ● AP distribution network (hotspot distribution network)

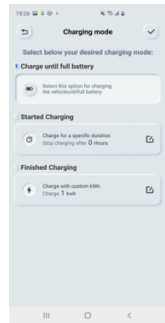


① Distribution network interface

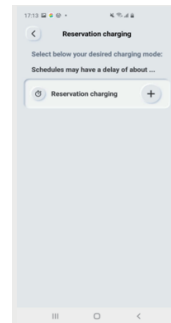


② Select WIFI Network and enter password

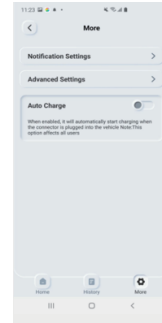
## ● Multiple charging modes



Charging mode



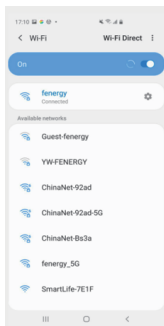
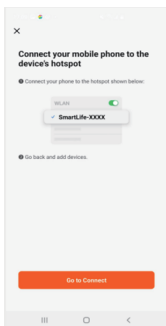
Schedule Charging



Auto Charging

Tip1: After setting both charging mode and scheduled charging, priority is given to executing the scheduled charging command  
Tip2: After setting up automatic charging, the automatic charging button needs to be turned off to stop charging

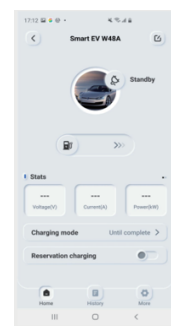
## ● Charging process



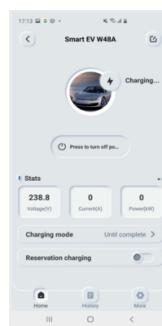
③ Select the hotspot smartlife-XXXX connection



① Select circuit breaker current



② Select charging mode and make reservation for charging

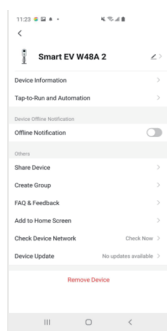


③ Charging

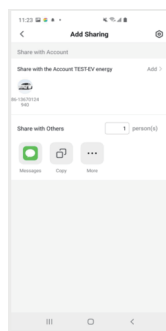
## ● Share device



① Click on the share button in the upper right corner



② Share device



③ Click the Add button



④ Enter "EV energy" APP account

## 9 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)	PM4*35 Screw (x6)
	PM5*16 Screw (x4)	IC card (x2)	Installation cardboard (x1)

## 10 Installation Preparation

### ● Tools required

Tool Name	Photo	Function
Multimeter		Check electrical connection and electrical parameter
Cross Screwdriver (PH6x200mm)		Tighten the screws
Electric drill		Hole on the wall
Diagonal Pliers		Cut cables

## 11 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.

### Requirements for safe power supply lines

- ⚠ 1.40A current specification requirements: Use not less than 2\*9AWG+1\*18AWG UL standard multi-stranded copper wire; when the power supply line is more than 40 meters, it should be thicker according to actual conditions.
- 2.48A current specification requirements: Use not less than 2\*8AWG+1\*18AWG UL standard multi-stranded copper wire; when the power supply line is more than 40 meters, it should be thicker according to actual conditions.
- 3.It is prohibited to use aluminum wire.

### Requirements for air switch and RCD leakage protector

- ⚠ 1.40A current specification requirements: Use 2P air switch. Charging pile is not recommended to share the electricity meter or air switch with household appliances. When using independent air switch, it shall not be less than 50A.
- 2.48 current specification requirements: Use 2P air switch. Charging pile is not recommended to share the electricity meter or air switch with household appliances. When using independent air switch, it shall not be less than 60A.
- 3.It is recommended to install both air switch and RCD leakage protector. A two-in-one device can be used. The RCD leakage protector shall not be less than the following specifications: type A, AC: 20mA.

### Requirements for wiring methods of Hard-wired products

- ⚠ 1.When wiring, you must install according to the wire numbers on the input power supply cord.
- 2.The wire numbers for the Hard-wired product power supply cord are: L1, N, and PE.
- 3.For safety considerations, the ground wire (PE) must also be installed securely and in good contact.
- 4.All connections must be secure and in good contact.
- 5.This product can be connected to either a 120V or 240V power supply system. It is recommended to use it in a 240V power supply system as it charges the vehicle faster. For the 120V power supply system, connect the L1, N, and PE of the power supply system to the corresponding wire numbers on the input power supply cord of the product (L1-L1, N-N, PE-PE). For the 240V power supply system, connect the L1, L2, and PE of the power supply system to the corresponding wire numbers on the input power supply cord of the product (L1-L1, L2-N, PE-PE).

### NEMA14-50P product wiring method requirements

- ⚠ 1.For safety considerations, the ground wire (PE) must also be installed securely and in good contact.
- 2.All connections must be secure and in good contact.
- 3.NEMA14-50P product wiring method for 240V power supply system: Connect the L1, L2, and PE of the NEMA14-50R socket on the power supply system to the corresponding terminals on the NEMA14-50P plug of the product (L1-L1, L2-L2, PE-PE). The neutral wire (N) is not used and left unconnected.

### NEMA6-50P product wiring mode requirements

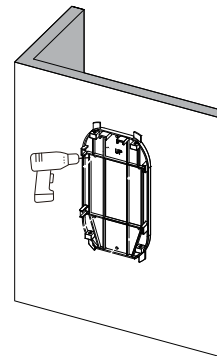
- ⚠ 1.For safety considerations, the ground wire (PE) must also be installed securely and in good contact.
- 2.All connections must be secure and in good contact.
- 3.NEMA6-50P product wiring method for 240V power supply system: Connect the L1, L2, and PE of the NEMA6-50R socket on the power supply system to the corresponding terminals on the NEMA6-50P plug of the product (L1-L1, L2-L2, PE-PE). The neutral wire (N) is not used and left unconnected.

### 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.

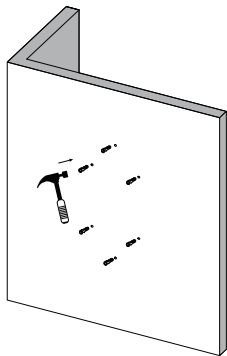
### Installation Procedure

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

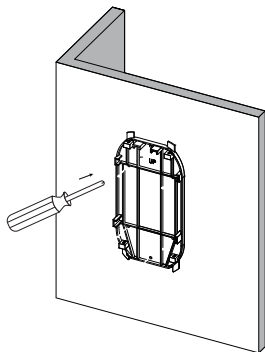




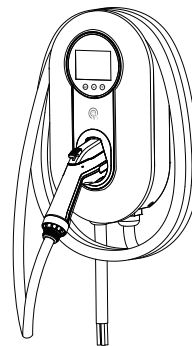
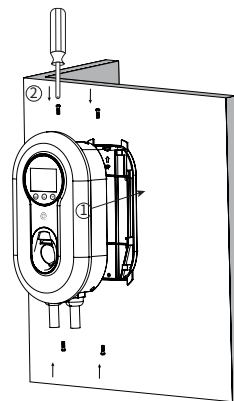
2. Install expansion bolts(6\*M6\*35MM)



3. fix the Mounting backplane with self tapping screws(6\*PM4\*35mm)



4. Align the main unit with the buckle on the back panel and install it, and then use screw to fix (4\*PM5\*16MM)



## 12 Instructions

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 doesn'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	Error7	The relay switch is stuck: When the protection is started, need to be powered off manually and restarted for recovery.

## 13 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>							