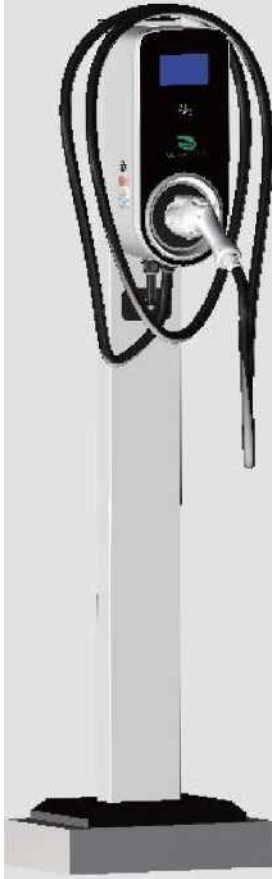


# User Manual

(Model:FSEV32-EU-1JNE31)



(Please read this manual carefully before using this device)

# European standard 32A Single-phase AC EVSE

HELLO!

Thank you for choosing our AC electric vehicle charging station solutions. To help you correctly operate, check, troubleshoot and maintain this AC EV charging station, please read this user manual carefully before use, follow this user manual when using it store in a safe place.

If you encounter any problems during use, please contact our after-sales service center 4001602660, there will be professionals to answer your questions.

In response to the needs of continuous product improvement, this information product shall be subject to regular updates and enhancements to the hardware.

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## 1 .Safety rules

- > Any faults that may affect safety of the charging pile must be evaluated and repaired by professional maintenance personnel.
- > Do not install or use this product near flammable, explosive or combustible materials, chemicals or steam. This product is strictly forbidden to be used after soaking in water, normal rain is ok but try to avoid direct exposure to heavy rain.
- > Charging piles are installed by professional technicians, unauthorized installation or changes cause serious safety accidents. The company does not assume any responsibility for unsafe and/or unqualified operation.
- > During the installation and replacement of the charging pile, it is necessary to cut off the power supply to prevent electric shock. The installation of charging piles and the connection to the power grid must be operated by professionals. Do not use a private generator as a charging power source.
- > The cable of the charging pile must be firmly connected and well insulated,. Loose and damaged connections will cause circuit failure, and in severe cases, casualties or fires. When charging, try to avoid wire grabbing and winding, and try to avoid damaging the wire through ground friction or any other damage the outer cover of the cable.
- > The AC EV charging station is dropped during transportation or installation, the device must be checked by a professional to determine whether it can be installed even if the equipment appears to be undamaged.
- > When charging with this product, if there **is** a child nearby, it **is** recommended to exercise common sense and reasonable restraint. This device is not a toy.

The operating temperature range of this product:

-30 °C ~ 50 °C. Do not operate at temperatures outside this range. The charging connector and vehicle input are coupled into place, and the green indicator indicates that the connected vehicle is OK. Try to avoid exposing the charging gun to the rain so as not to cause unnecessary losses. Do not touch any metal conductor during the charging process to withstand large currents to prevent electric shock accidents. After charging, first disconnect the charging button on the car, and then press the mechanical lock hook on the charging gun, remove the charging gun, and place the charging gun in place, it is strictly forbidden to discard the charging gun on the ground, so as not to cause damage to the charging gun.

**Incorrect installation and testing of this product may damage the vehicle's battery, components, or the product itself. Any damage caused as a result is not covered by the warranty.**

## 2.Introduction to charging piles

The company's AC charging pile is a charging device developed to meet the charging needs of battery electric vehicles, and is used in conjunction with electric vehicle on-board chargers to provide charging services for electric vehicles. This product is easy to install, takes only a small footprint, is easy to operate, stylish, suitable for private parking garages, public parking lots, residential parking lots, enterprise parking lots and other types of open-air and indoor parking lots. There are no corrosive gases such as acids and alkalis in the surrounding environment to avoid affecting product performance. Try to avoid direct rain or excessive humidity in the environment, and should try to prevent damage caused by impacting the shell. Because this product is connected to the mains, the electric vehicle is safely and reliably charged by the charging gun interface. For high-voltage equipment; please do not disassemble the housing or modify the wiring of the equipment yourself.

### 2.1 Product composition

The charging pile is mainly composed of the main body of the charging pile, the installation back plate, the charging gun line, and the installation of the ingredient pack.

### 2.2 Main features of the product

- 1) 4.3-inch display display, equipped with LED status indication, the charging process is clear at a glance.
- 2) Ethernet/4G network online communication function, online control and payment function
- 3) Perfect system protection function: overvoltage, undervoltage protection, overcurrent protection, short circuit protection, leakage protection, over-temperature protection, lightning protection, product operation is safe and reliable
- 4) Data storage and fault identification.
- 5) Accurate electricity metering and identification function to increase user confidence.
- 6) The whole machine structure adopts rainproof and dustproof design, with IP54 protection level, suitable for indoor and outdoor, and widely used in the environment.
- 7) Easy to install, operate and maintain.
- 8) Security and anti-theft

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### 3.Main technical parameters

Name/Model		J5AC23032A-E
Electrical parameters	Input	Single phase 32/VAC230V±20%
	Input frequency	50Hz
	Output	Single phase 32/VAC230V±20%
	Maximum power	7.2KW
	Input cable	3*10mm <sup>2</sup>
	Connector	IEC62196 250V32A
Electrical index	Voltage accuracy	<1% (Load current variation:0%-100%)
	Current accuracy	<1% (Output rated current:20%-100%)
	Current harmonic	<5% rLoad 50%-100%
	Efficiency	>96%
	Power factor	>0.99 fLoad 50%-100%
	Output ripple	<±0.5% (Load current variation:0%-100%, Output voltage variation:85%-115%)
Charging equipment	Overall dimension (mm)	H179 5*W145 5*T421
	Weight (KG)	About 6-7KG
	Enclosure material/color	PC+ABS Flame retardant and fireproof,UL-94 V0AA/hite
	Cable length	5m/10m(Optional)
	Interface	No screen/4.3 inches LCD color display (Optional) , LED indicator light
	Installation mode	Wall hanging/Pole (Optional)
	Routing mode	Lower incoming line (L、N、PE)、Gun line (L、N、PE、CP、PP)
	Control mode	Plug and play Charge by swiping card、4G networking、Ethernet networking、Optional
	Charge mode	Auto fill Constant power、Fixed amount Fixed time、Optional
	Payment method	Card payment、Online payment、Optional
Communication mode	4G/Ethernet (Optional)	
	Measurement accuracy	0.5 Level
Safety design	Connection communication mode	DIN70121/ISO15118
	Communication protocol	OCPP1.6J
	Charging interface type	IEC 62196-2, TYPE2
	Connection standard	IEC 61851
	Protection function	Overvoltage protection、Undervoltage protection、Overload protection、Short circuit protection、Grounding protection、Overtemperature protection Low temperature protection、Insulation monitoring and protection、Polarity reverse protection、Lightning protection、Emergency stop protection、Leakage protection
Environmental indicators	Use environment	Outdoor/indoor
	Ambient temperature (°C)	-30°C~50°C
	Storage temperature (°C)	-40°C~80°C No corrosive gas
	Working humidity	5%~95% No frost
	Working altitude	Less than:2000m
	Three prevention protection	Moisture proof/Mildew proof/Saltfog prevention
	Protection level	IP55
	Cooling mode	Forced air cooling
	Noise control	<65dB
	Safety index	Insulation resistance greater than:10MΩ、Withstand voltage:1500V1min
MTBF	30,000H	

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## 4. Description of the appearance of the whole machine

4-M6\*15 Cup head hexagon stainless steel screw



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### 5. Installation

5.1 Please check the box before installation if it contains the following items

No.	Material name	Company	Quantity
1	AC 32A Single Phase EVSE	PCS	1
2	Instructions	PCS	1
3	Certificate	PCS	1
4	IC Card (Only pay by card)	PCS	2
5	Install the backplane	PCS	1
6	M8*60 Expansion bolt (Only Wall hanging)	PCS	5
7	M10*60 Expansion bolt (Only floor type)	PCS	4
8	Column (Only floor type)	PCS	1
9	M6*15 Screw (Only floor type)	PCS	4
10	Inspection report	PCS	1
11	Packing list	PCS	1

## 5.2 Installation environment requirements

- 1) The charging pile is a universal charging pile for indoor and outdoor, which meets the IP54 protection level and can be installed in the open air.
- 2) Please make sure that the ambient temperature is in the range of  $-30\text{ }^{\circ}\text{C} \sim +50\text{ }^{\circ}\text{C}$ .
- 3) The installation site shall not be higher than 2000 meters above sea level.
- 4) There should be no violent vibration and flammable and explosive materials near the installation site.
- 5) The installation site should not be in low-lying areas or areas prone to water accumulation.
- 6) Pile installation must have wall support, if there is no wall support, it is recommended to use a special floor-standing column for installation and fixing.
- 7) When the pile is installed, the pile should be guaranteed to be vertical, and the reference data of the height of the charging pile from the ground should be guaranteed (1.3-1.5 meters)

## 5.3 Installation wiring method

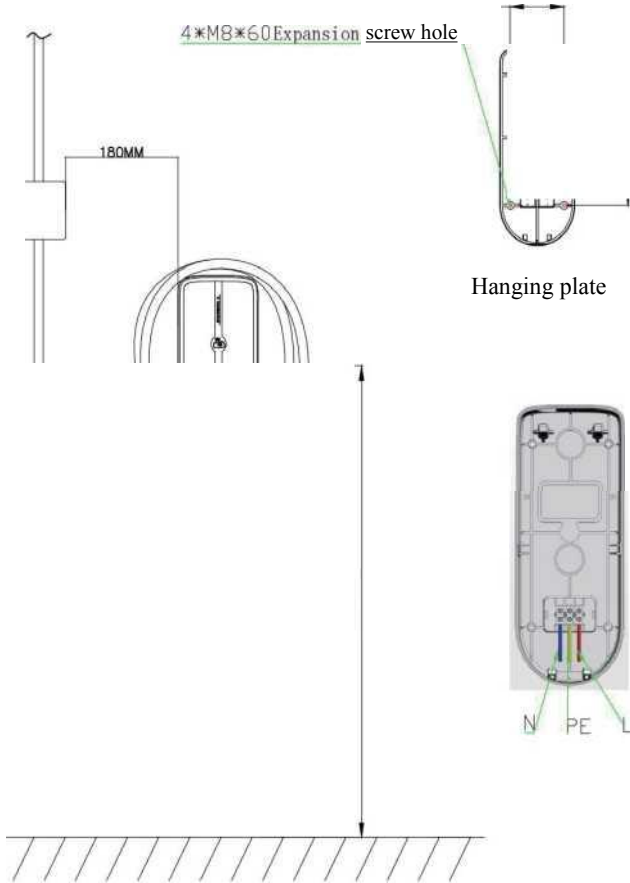
Only professionally trained personnel can install charging piles, please do not install themselves.

Figure 1 is a wall-mounted installation :

- 1) Reference data on the height of the charging pile from the ground (1.3-1.5 meters)
- 2) Mark the hole position on the wall according to the position of the installation hole on the back plate. Use impact drilling to punch holes (Ø8\*65), then put in the M8\*60 plastic expansion tube, and tighten the screws through the hanging plate.
- 3) The equipment is equipped with an input cable at the factory, if you need to extend the length of the input cable, please be sure to extend it according to the correct cable connection method. Connect the three cables (L, N, PE) into the terminal block according to the wiring identification, and complete the wiring; (due to the large current of the equipment, the extension should ensure a reliable connection at the connection);
- 4) In order to prevent the risk of electric shock, the device should ensure that the input ground wire is firmly grounded.



Figure 1

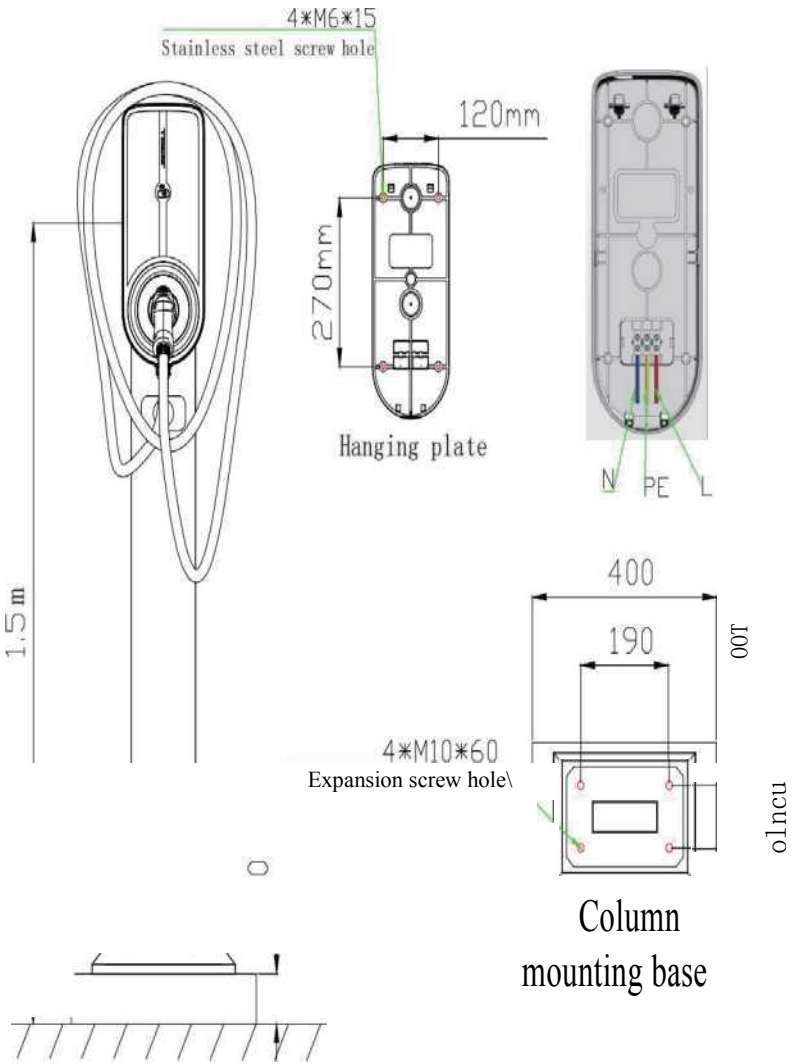


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Figure 2 is a column installation :

- 1) Charging pile concrete foundation strength C25, underground part 400MM, above ground part 200MM, concrete shape size: 400\*250MM, foundation center buried outlet pipe, column with 4-M 10\*60 expansion screw fixed on the foundation.
- 2) Lock the back plate with M6\*15 stainless steel screws on the column.
- 3) The inlet line is pulled by the foundation embedded pipe through the inside of the column to the outlet access special socket.
- 4) The equipment is equipped with an input cable at the factory, if you need to extend the length of the input cable, please be sure to extend it according to the correct cable connection method. Connect the three cables (Fire WireL, Zero WireN, Ground WirePE) into the terminal block according to the wiring identification, and complete the wiring; (due to the large current of the equipment, the extension should ensure a reliable connection at the connection);
- 5) In order to prevent the risk of electric shock, the device should ensure that the input ground wire is firmly grounded.

Figure 2



## 5.4 Disassembly mode

Only professionally trained personnel can install/remove the charging pile, please do not install /disassemble yourself.

Disassemble this charging pile and push the main part of the product hard in the direction indicated by the product arrow in the figure above before disassembling. Do not use hard objects and sharp objects to knock.



## 6.0perating instruction

### 6.1 Description of light strip control logic

Light band status description			
Priority: The warning light is displayed first, The charging lamp takes the second place, Connect the lamp last.			
Indicator definition			
No.	Colour	State	
1	The blue light is always on	Standby	
2	The green light is always on	Ready to charge	
3	The green light flashes	Charge	
4	The green light is always on	Charging complete	
5	Red flashing	Fault	
Warning indicator (Red)			
No.	Colour	Second	Fault
1	Flash once	5	Emergency stop
2	Blink twice	5	Ungrounded
3	Blink 3 times	5	CP Error
4	Flash 4 times	5	Overcurrent
5	Blink 5 times	5	Overpressure
6	Flash 6 times	5	Undervoltage
7	Flash 7 times	5	Relay adhesion
8	Blink 8 times	5	Electric leakage
9	Blink 9 times	5	Overtemperature
10	Flash 10 times	5	Watt-hour meter

## 6.2 Charging pile operating instructions



### 1 Plug and play operation process

- ◇ Owner parking lock car - connect charging gun - start charging (light flash)
- ◇ Change when you come, go when you are finished, and completely insensitive experience



### 2 Swipe to start the operation process

- ◇ Car owner plug - owner swipe authentication card - start charging (light flash).
- ◇ This card is an important certificate to provide customers with changing services, please keep it safe without reporting the loss function, rfyou have lost, please contact the customer personnel to apply for a replacement canj

\* If ethernet or 4G AC charging pile is

required, customers need to apply for local docking communication protocol: OCPP1.6J

## 7. Precautions for use

1) The power supply used must be consistent with the requirements of this equipment, and the three-core power cord must be reliably grounded.

2) Please strictly follow the design parameters and conditions of use during use, and do not exceed the threshold in this user manual, otherwise it may damage the equipment.

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- 3) Please do not change the specifications of electrical components, do not change the internal wiring or graft other wiring.
- 4) After the charging pile is installed, if the charging pile cannot start normally after the device is connected to the power supply, please check whether the power connection is correct.
- 5) The equipment has limited dustproof and waterproof capabilities, and the use process should pay attention to anti-static, moisture-proof, waterproof, etc., such as the equipment has entered the water should be immediately cut off and stopped.
- 6) The device has limited anti-theft function, please install in a safe and reliable environment.
- 7) Please do not have a current live plug and unplug the charging gun during the charging process, so as not to cause irreversible damage to the charging pile and the car.
- 8) CAUTION: Use appropriate protection when connecting to the main power distribution cable. When connecting charging pile, residual current protective devices switch should be disconnected externally. RCDs shall comply with one of the following standards: IEC 61008-1, IEC 61009-1, IEC 60947-2 and IEC 62423. RCD Type A and appropriate equipment that ensures the disconnection of the supply in case of DC fault current above 6mA.

## 8. General fault description

### Fault description

Fault phenomenon	Possible causes	Handle
Charging pile LED or display screen is not on	The power supply is not connected properly	Check whether the power cord is energized and whether the power switch is closed
	Circuit breaker trip	The charging pile has the function of leakage protection. The circuit breaker switch needs to be closed
	Equipment damage	Consulting customer center
Unable to start charging	Charging gun not fully connected	Check whether the charging gun is firmly connected with the vehicle, Ensure that the charging gun is inserted in place
	Charging pile does not match IC card	Please use the correct IC card to charge
	Emergency stop button	Reset the emergency stop switch
Charging current less than rated value	Equipment failure or vehicle approaching full load	The vehicle is nearly full and the current drops, which is a normal condition. If not please consult the customer center
Equipment fault light	The fault light flashes	Consulting customer center
	The fault light is always on	Consulting customer center

★ If the product size and parameters change, The latest information of the company shall prevail. Without notice