



E-PENGUIN

22kW EV CHARGER

User's Manual

*Please read the instructions carefully before using.





Table of Contents

Safety Caution	.....	1
Main Parameters	.....	2
Charging Operation	.....	3
Wi-Fi Function	.....	4
Charging Status Indicator	.....	8
Troubleshooting	.....	9

(*Please save these instructions)

Safety Caution



1. Avoid placing any flammable, explosive, or combustible materials near the charging pile;
2. Maintain a clean and dry vehicle connector. Clean with a dry cloth and avoid contact with the connector core when powered;
3. Do not use the charging pile if the vehicle connector or cable is damaged. Report any defects immediately;
4. Refrain from disassembling or modifying the charging pile. Contact staff for repairs or modifications to prevent damage or hazards;
5. In case of abnormality, immediately press the emergency stop button to cut off all power;
6. Exercise caution when charging in rain or thunderstorms;
7. Keep children away from the charging pile during operation to prevent injury;
8. Only charge when the vehicle is stationary and turned off, especially for hybrid electric cars;
9. The charging current is not adjustable during the process. To reset, unplug and replug the charger. Disable Auto-Start for scheduled charging;
10. The vehicle connector's maximum current is 32A. Installation of a 40A breaker by a professional electrician is required.



Main Parameters

Product Name	AC EV CHARGER
Model	PEV-21KW07EN
Input Voltage	AC 400V 3-Phase/240V 1-Phase 50-60Hz
Input Current	MAX 32A
Charge Interface	EN 62196 Type 2
Output Power	22KW
Standard	IEC 61851-1
Cable length	5m
Enclosure IP Rating	IP65
Operating Temperature:	-30°C~+50°C ≤95%RH
Operating Altitude	<2000m
Cooling Method	Natural air cooling
Standby Power	<3W
Weight	6.8kg
Mounting Method	Wall/column pole
Dimension(W/H/D)	385/284/80(mm)
Certificate	RCM, SAA, CE

Charging Operation



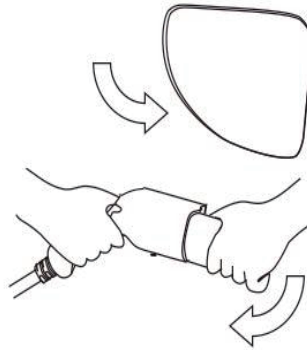
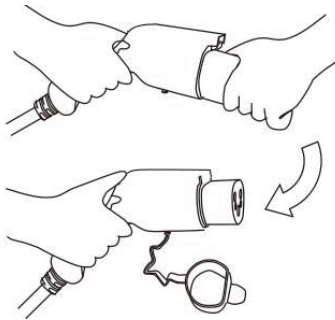
E-PENGUIN

1) Charging Connection

- After parking the EV, gently and fully remove the cap from the vehicle connector.
- Insert the connector's head into the vehicle's outlet, ensuring it is fully inserted and locked.

2) Charge Control

- Wait for approximately 3 seconds near the device's card swiping area to initiate charging.
- Automatic Charging: If "Auto-Start" is enabled charging begins automatically upon connector insertion.
- Manual Start: If "Auto-Start" is off, connect to Wi-Fi for authorization to start charging. Ensure the card is within 2 mm of the card swiping area.



3) Stopping the Charge

- To stop the charge, disconnect the charger or use stop button from the built-in APP.
- Put on the protective caps on both the EV and the vehicle connector.





Wi-Fi Function

1) To connect to Wi-Fi, turn on mobile Wi-Fi, search and to connect to Wi-Fi name starting with E-Penguin, initial password: 12345678 (Note: the mobile phone cannot access the Internet after connecting to Wi-Fi);

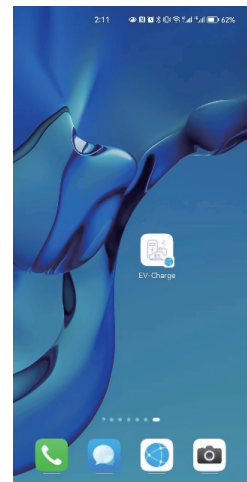
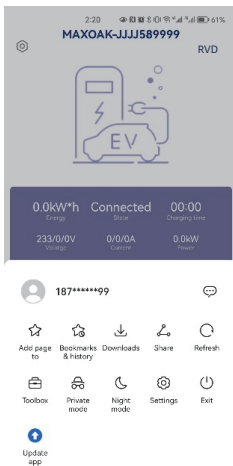


Note: If your phone prompts you that this network is not available, whether to use it or whether to switch, please choose to continue using it or not to allow switching.

2) Open the mobile browser (Mobile phone's own browser is recommended) and enter the "http://192.168.4.1" or use the browser scan code to open the web page;



Tip: You can save this website as a bookmark, and next time you use it, open the browser after connecting to the charger Wi-Fi and click on the bookmark to open the web page; Some browsers also support adding bookmarks to the desktop. After connecting to the Charger Wi-Fi, we can simply click on the icon on the desktop to open the web page, just as convenient as using an APP.





3) Setting

Click the setting icon in the upper left corner of the main page to enter the setting page, which can be set to charge, view/clear accumulated electricity, modify Wi-Fi connection password, etc.

11:43

Close192.168.4.1AA↺

Auto-Start

☐

Conn-Start

☐

PE Detect

☐

History Energy

0.00 kW*h

Clear Energy

>

Change Password

>

Factory CMD

>

Auto-Start

①Turn on Auto-Start, you can plug and charge immediately.

②Set "Auto-start" off, the anti-theft charging function will be turned on. Then, plugging in the vehicle connector to start charging automatically is banned, you have to click the "Start" button in the web-control page to start charging.

Conn-start

When the Conn-Start is opened, the mobile phone is connected to the charger hotspot(required), and the charging can be started automatically after inserting the charger.

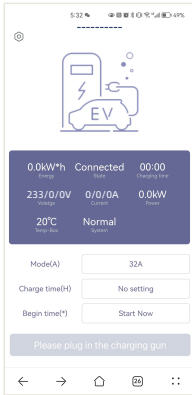
PE Detect

To detect the power source you plug in if there is a ground wire. Make sure the circuit you use has the ground wire. If there is no ground wire, the LED indicator will turn red.

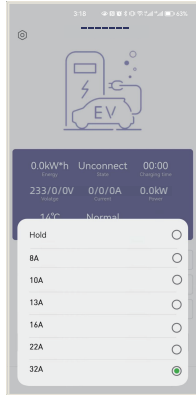
AUTO-START	CONN-START	CARD	
ON	OFF	OFF	No need to enter the web and no need to share the same Wi-Fi with the charger, just plug & go immediately.
OFF	OFF	OFF	Need to go to the web page and manually click "START" to turn on the charging.
OFF	ON	OFF	Share the same Wi-Fi with your charger, and you can charge without going to the web page.
OFF	OFF	ON	Swipe the card and start charging according to the parameters set in the previous charge.



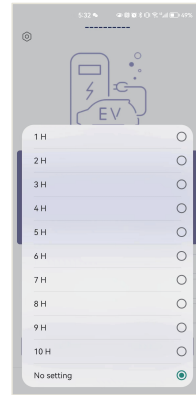
4) Start charging with your phone:



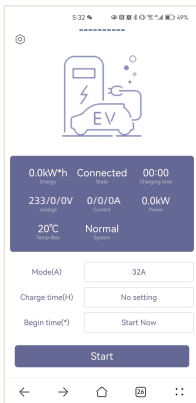
Home page



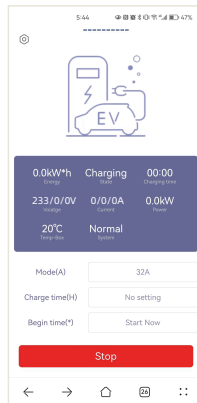
Current mode setting



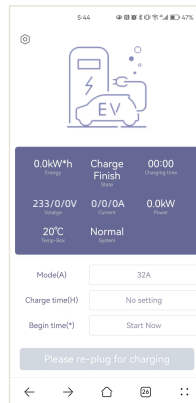
Set the charging limit time



Start charging



Charging



Stop charging

*Note: If you need to use your mobile phone to start or stop charging, please turn off "Auto-Start" .



5) Reservation

You can realize the reservation function by setting the “Begin time” . The setting steps are as follows:

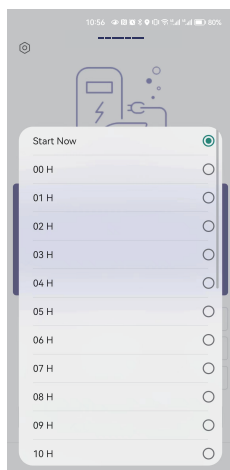
- ①First insert the vehicle connector into the charging port.
- ②Then select the “Begin time” as required on the website.
- ③When the countdown appears, the reservation is successful.

*Note:

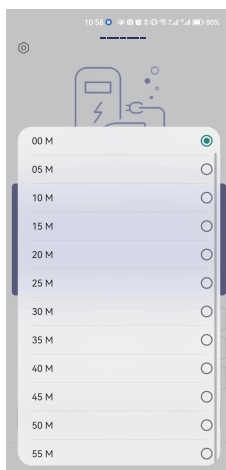
To use the reservation function, you need to turn off “Auto-Start” and “Conn-Start” .

Some cars may not support the reservation function. If the reservation cannot be used normally, please set the “Begin time” to “Start Now” . There is no need to swipe the card after setting the reservation.

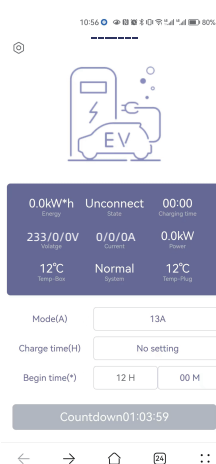
The setting is only valid for a single time. The device will record the setting time. If you need to charge at the same time next time, click “Start” on the web page.



Set hours



Set minutes



Reservation in progress



Charging status indicator

Charging status indicator		
Green	Solid	Ready to start
	Flashing	Charging now
Blue	charger did not connect	
Red	Faulty; refer to the user portal for more information	

Troubleshooting



E-PENGUIN

Error Codes	Reasons	Recommendation
CP	CP connection of vehicle connector is abnormal	<ol style="list-style-type: none"> 1. Check whether the vehicle connector is connected correctly and reliably. 2. If the fault persists, contact us.
PE	The input / output is improperly grounded	<ol style="list-style-type: none"> 1. Immediately turn off the switch of the distribution box. 2. Check whether the input/output lines of AC piles are grounded properly and whether the input L/N is connected in normal sequence. 3. After the fault is rectified, power on the device again. If the fault persists, contact us.
OV	The AC input voltage is too high	<ol style="list-style-type: none"> 1. Please ask the electrician to test the input voltage of the air switch. 2. If the actual voltage exceeds 275Vac for a short time, wait for the network to restore itself to the normal voltage range, power off and restart. 3. If the actual voltage exceeds 275Vac for a long time, contact the power supply department. 4. If the actual voltage is less than 265Vac and the power failure is not recovered, please contact us.
UV	The AC input voltage is too low	<ol style="list-style-type: none"> 1. Please ask the electrician to test the input voltage of the air switch. 2. If the voltage is temporarily below 85Vac, wait for the voltage to return to normal range. 3. If the actual voltage is lower than 85Vac for a long time, contact the power supply department. 4. If the actual voltage is greater than 85Vac, please contact us.
OC	The AC input current is too large	<ol style="list-style-type: none"> 1. Immediately turn off the switch of the distribution box. 2. Check whether there is short circuit between two output lines of AC pile. 3. After troubleshooting the above problems, the power-on fails to recover, please contact us.
OT	The internal temperature is greater than 85°C	<ol style="list-style-type: none"> 1. Check the installation environment of AC piles. Check whether there are heating devices or devices nearby. Ensure that the ambient temperature is below 50°C. 2. If the fault cannot be rectified, please contact us.
LEAK	Leakage current is greater than 30mA	<ol style="list-style-type: none"> 1. Immediately turn off the switch of the distribution box. 2. Check AC pile output line for damage or low impedance connection to the ground. 3. After troubleshooting the above problems, reset the switch of leakage current protector and power on again. If the fault still exists, please contact us.





Charge for today Change for future

