

User manual

DC EV Charger

PEVC3107E/PEVC3107U



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Version: V1.00

Safety and Compliance

Save these instructions. Read the manual before installation or usage of device.

- 1) Do not put tools, material or body parts into the electric vehicle connector.
- 2) Do not use the DC EV charger if the cabinet, power cord or charging cable are frayed, have broken insulation or show any other signs of damage.
- 3) Do not install or use the DC EV charger if the enclosure is broken, cracked, opened or shows any other indications of damage.
- 4) The DC EV charger should be installed only by a qualified technician.
- 5) Make sure that the materials used and the installation procedures follow local building codes and safety standards.
- 6) The information provided in this manual in no way exempts the user of responsibility to follow all applicable codes or safety standards.
- 7) The manufacturer is not responsible for physical injury, damage to property or damage to equipment caused by the installation of this device.
- 8) This document provides instructions for the DC EV charger and should not be used for any other product. Before installation or use of this product, you should review this manual carefully and consult with a licensed contractor, licensed electrician or trained installation expert to make sure of compliance with local building codes and safety standards.

Warning



Hazardous voltage that gives risk of electrocution



General risk



PE

The input and output voltages of this device are high voltage, which threaten human life safety. Please strictly observe all warnings on the device and user manual. Unauthorized and non-professional service personnel are forbidden to remove the cover of this device.

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1 Product Introduction

1.1 Product Description

The DC EV charger is the top choice for powering battery electric vehicles (BEV) and plug-in electric vehicles (PHEV) today. It is designed for quick charging in both public and private locations, such as retail and commercial parking spaces, fleet charging stations, highway rest areas, workplaces, residences, etc.

The DC EV charger has the advantage of easy installation. The ground-mounted design and pluggable power modules allow for flexible installation. The DC EV charger also features network communication capability; It is able to connect with remote network systems and provide drivers of electric cars real-time information, such as the locations of charging stations, charging progress information and billing information. The DC EV charger has a friendly user interface with HMI, a power supply safety system and excellent waterproof and dustproof technology to provide the best choice for outdoor environments.

1.2 Product Characteristic



7 Inch LCD Display

Straightforward user interface with 7 inch panel, which display the real-time charging status, including time, voltage, current, power and temperature.

Convenient operation

Easy installation with modular design, adapt to indoor and outdoor environment. Ingress protection up to IP54.

Simultaneous charging output

Applicable to dual output and multiple output model, smart Charging model to adjust the power loading, Load sharing to ensure the best utilization.

High intelligence

Powerful information collection, transmission and communication functions, compatible to OCPP backend office, support user authentication options.

Easy to install and use

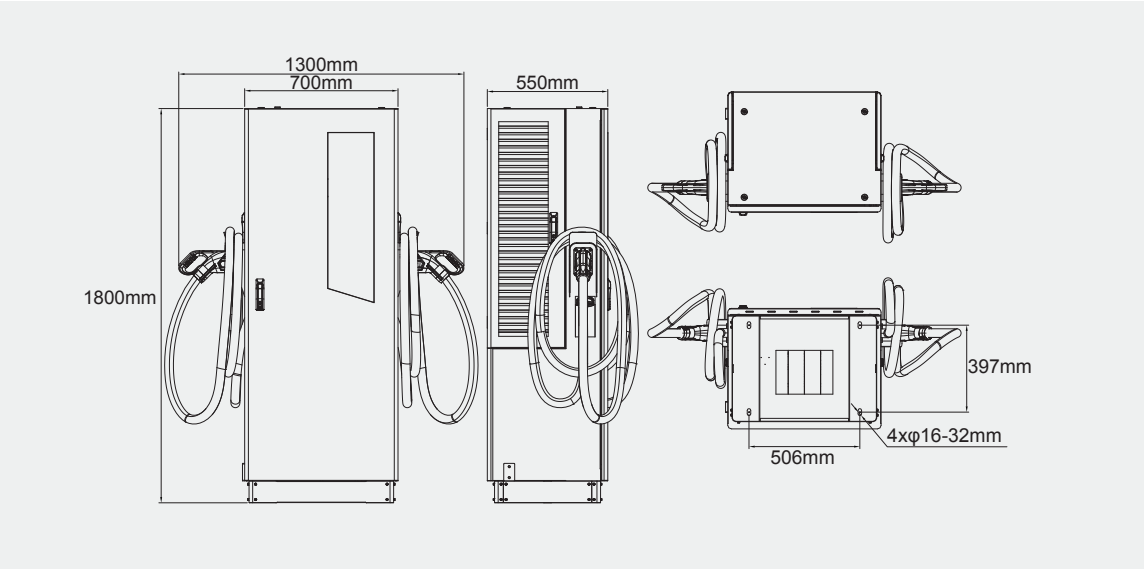
The installation process is simple, payment is convenient and fast, supports mobile application software or IC card swiping. Fully compatible with all EV in the market.

1.3 Product Technical Specifications

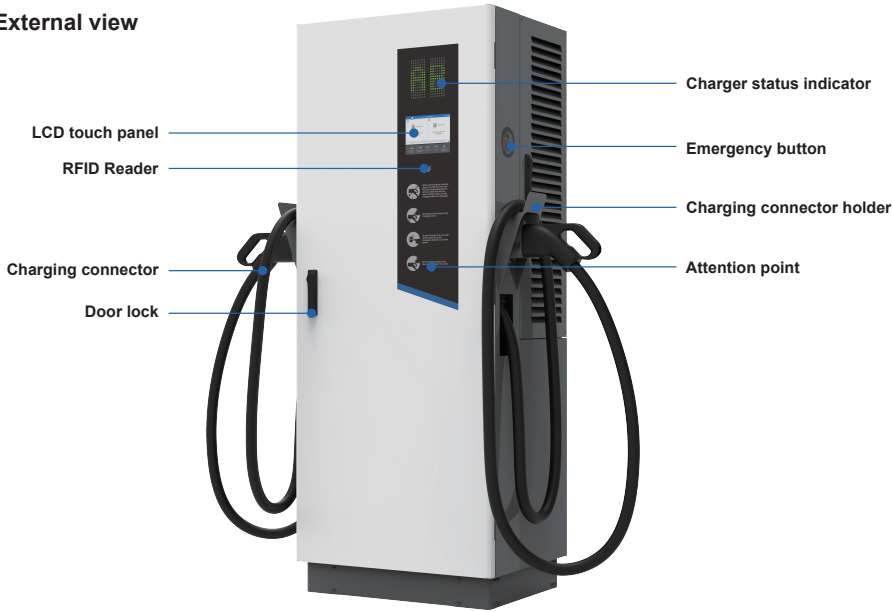
Parameter type	Description	PEVC3107E/U 60K1000D2	PEVC3107E/U 120K1000D2
Input	Power Supply	3P+N+PE	
	Rated voltage	400VAC±15%	
	Frequency	50/60Hz	
	THDi	≤5%	
	Efficiency	≥95%	
	Power Factor	≥0.98	
Output	Connector Type	CCS Combo 1/CCS Combo 2	
	Voltage	150-1000VDC	
	DC Current	200A max	
	Power Rating	60kW	120kW
	Voltage Accuracy	≤0.5%	
	Current Accuracy	≤±1%	
General	HMI	7-Inch Touchscreen	
	Payment Method	RFID Card,APP	
	Cable Length	5m	
	Network Connection	Cellular modem:4G LAN:10/100 Base-T Ethernet	
	Communication Protocol	OCPP 1.6J	
	Operating Noise Level	≤60dBA	
	Ingress Rating	IP54	
	IK Rating	IK08	
	Power Meter	Accuracy Class 1.0 energy meter	
	Enclosure	Galvanized steelpowder, powder coating RAL7035	
	Place of Installation	Indoor / Outdoor	
	Product Dimension(W*D*H)	700*550*1800mm	
	Package Dimension(W*D*H)	950*720*1950mm	
Environmental	Protection	Over Current,Under Voltage,Over Voltage,Short Circuit,Residual Current,Surge Protection,Over Temperature,Ground Protection	
	Certification Standard	EN/IEC 61851-1, EN/IEC 61851-23, EN/IEC61851-24, IEC62196-1,IEC62196-3	
	Operating temperature	-30℃~-55℃	
	Storage temperature	-40℃~-75℃	
	Maximum Installation Height	≤2000m	
	Operating Humidity	5%~95% RH	

1.4 External Structure

Dimension drawing



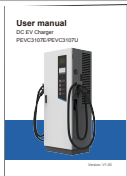


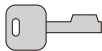
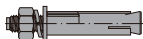

External view



1.5 Package Contents

Unpack the product. Please check and verify following items after receiving the charger:

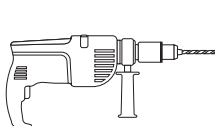
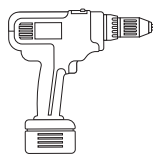
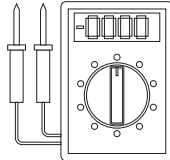





- 1) Visual inspection on charger's external appearance. If there is any breakage or other damage, please notify the seller immediately.
- 2) Check type and quantity of all accessories as follows. If there is a shortage in the quantity of any items or if any items are missing, please contact the seller at once.

General parts		
		
User manual (x1)	RFID card (x2)	Certificate (x1)
		
Key (x2)	Expansion bolt M12×100 (x4)	Emergency button protection(x1)

2 Installation Instruction

2.1 Installation Preparation

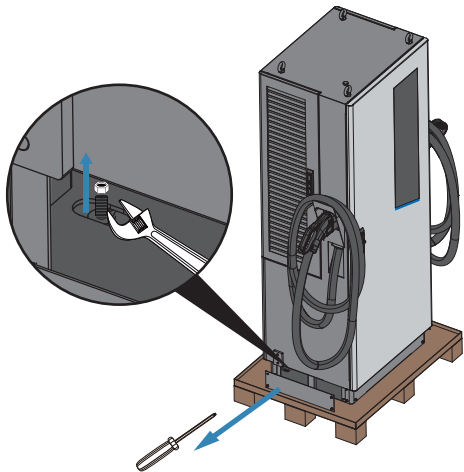
Please prepare the following tools before installation:

			
Hammer drill and drill bit(φ 22mm,7/8 inch)	Electric drill	Multimeter	Hammer
			
Phillips screwdriver M4(length)<100mm	Adjustable wrench	Diagonal Pliers	Measuring tape (5m)

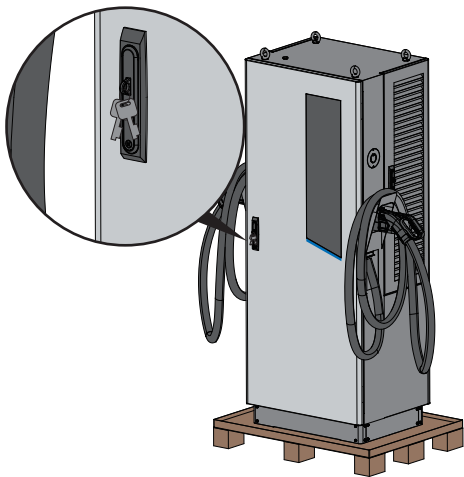
⚠ Installation Notice

- Electrical devices should only be installed, operated, and maintained by qualified technician. No responsibility is assumed by the manufacturer for any consequences arising out of the use of this device.
- When installing wires, do not turn on the power supply.
- The length of the power cable and communication cable should be properly reserved to facilitate installation and connection.
- Pay attention to protect the charger enclosure during installation to prevent bumping, scratching the surface, etc.
- The charger must be installed vertically, and the deviation of any direction from the vertical position should not exceed 5°.

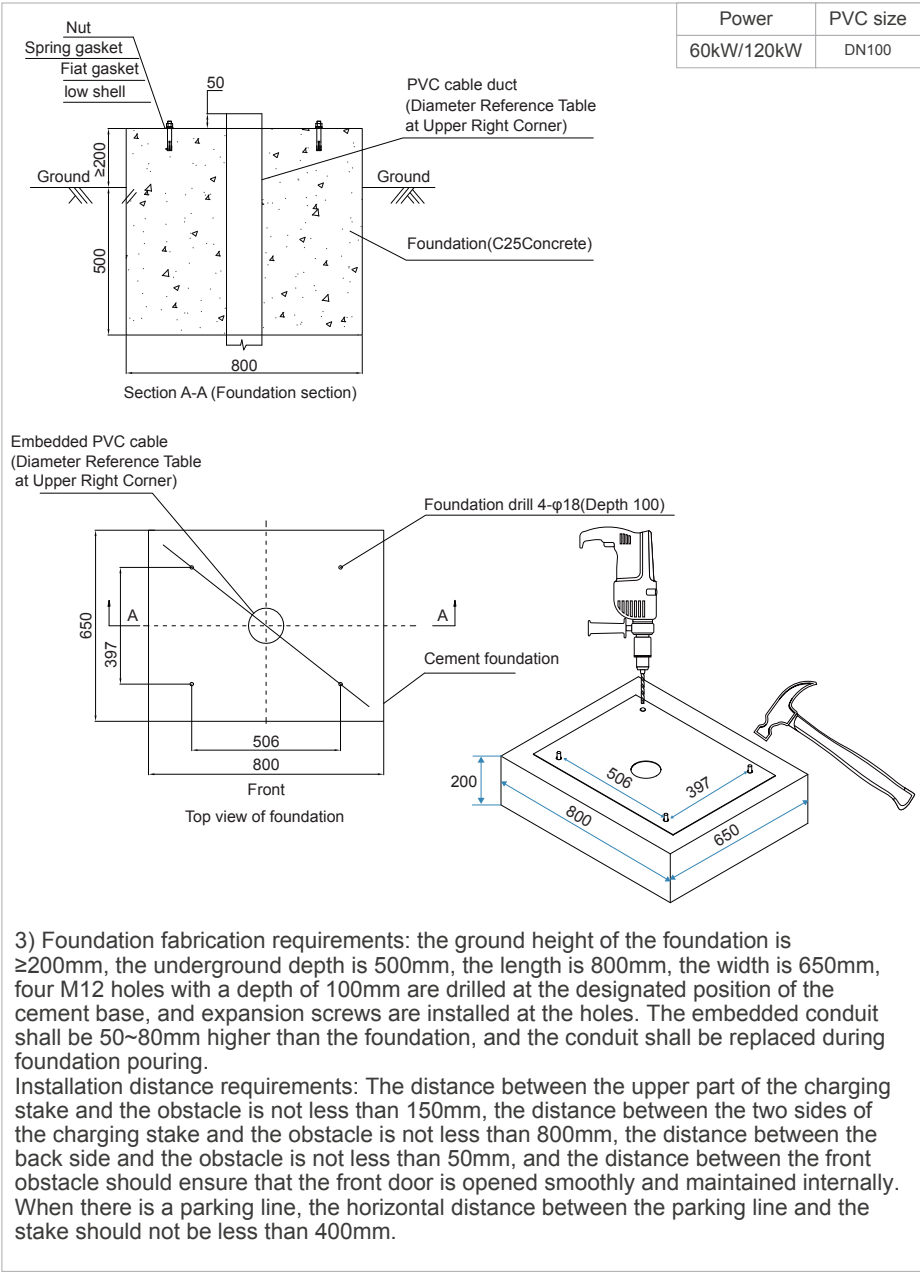
2.2 Mounting Process

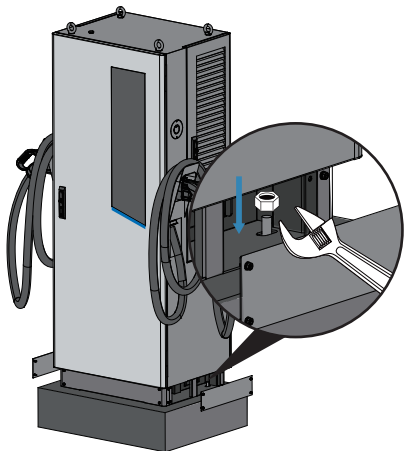


1) Remove the base cover, expose the wooden bracket fixing screw and remove it to separate the charging stake from the wooden bracket.

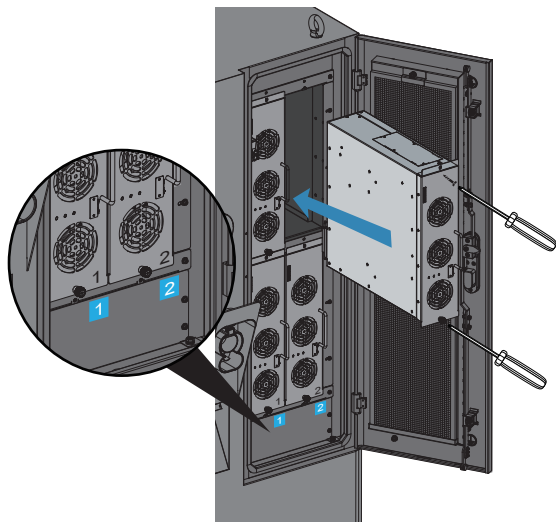


2) Take the key and open the front door to remove the accessory bag.

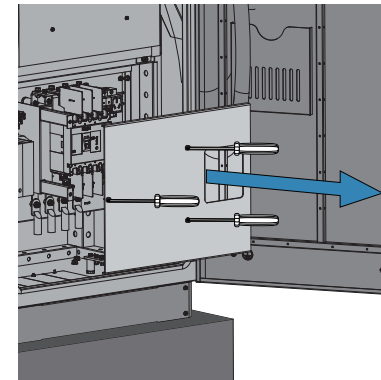




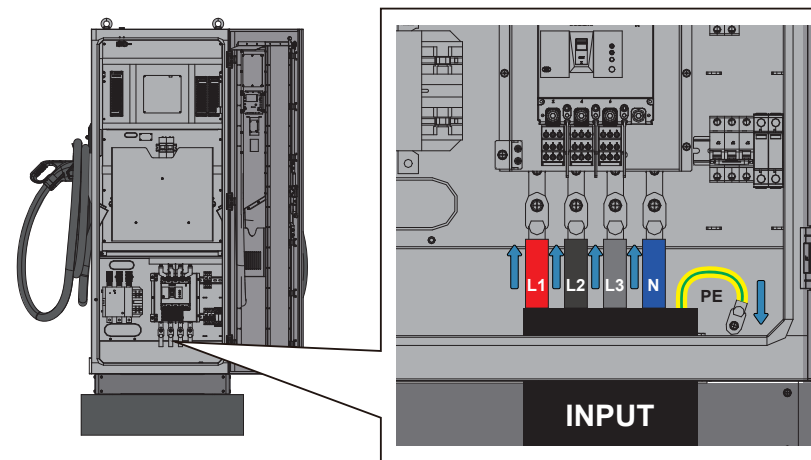
4) Use a crane or forklift to transport the charging stake to the mounting position and align the four corner reserved screw posts. Use a wrench to tighten the four corner nuts to secure the charging stake to the base.



5) Open the right door, insert the module into the corresponding numbered module slot, and tighten the upper and lower screws.



6) Open the front door and release the input PC shield with a screwdriver.



Model	Recommended cable	Stripping Length	Screw	Torque
60kW	L1/L2/L3/N:50mm ² ;PE:25mm ²	250mm	M8	3.5N-m
120kW	L1/L2/L3/N:120mm ² ;PE:70mm ²	250mm	M8	3.5N-m

7) Connect the power cord L1/L2/L3/N/PE according to the legend. Load back the PC shield and close the front door after wiring is completed.

3 Configuration and Operation

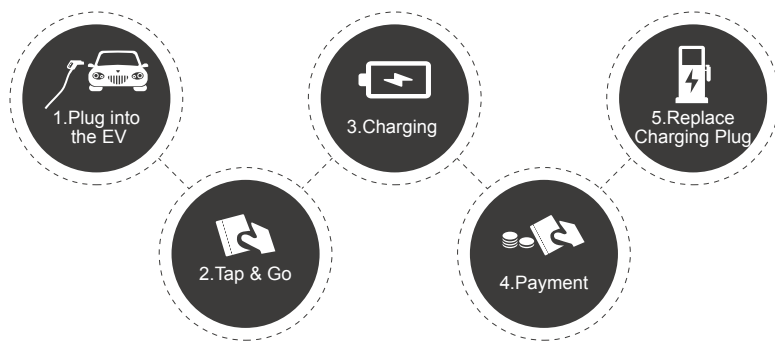
3.1 Power-on Checking

Please check / re-check the following items prior to initial Power-on:

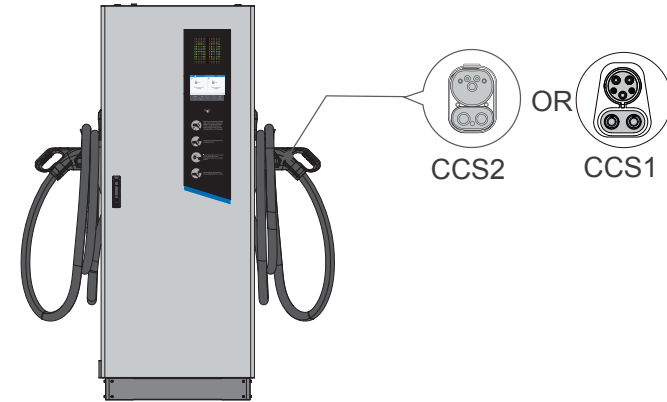
- 1) The location of the charger should be convenient for operation and maintenance.
- 2) Before installation of the charger, ensure that the AC input component in the power supply is properly installed with the required protection.
- 3) Double confirm the charger is installed properly.
- 4) No components or other items have been left inside of the charger.

3.2 Start and stop charging by your charge card

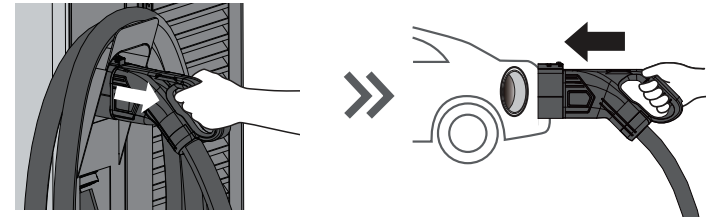
Operation



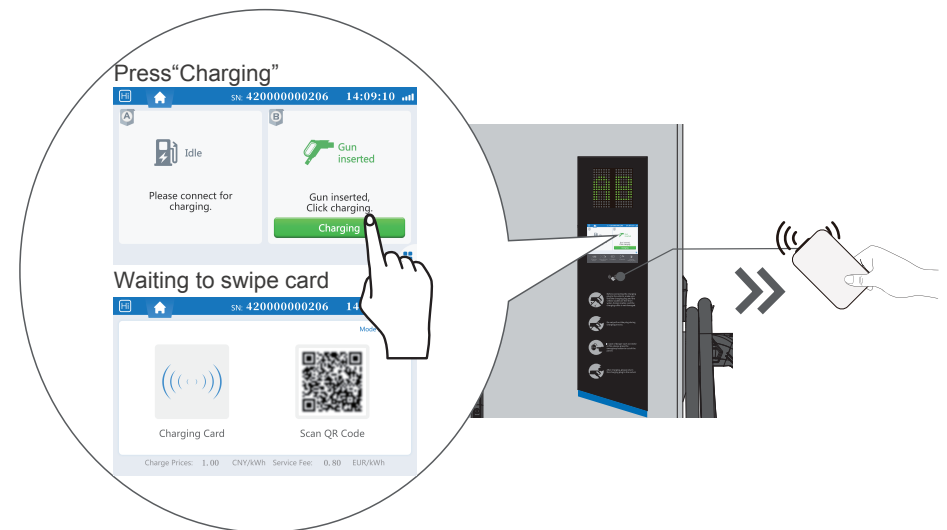
1) Choose a compatible plug (CCS).



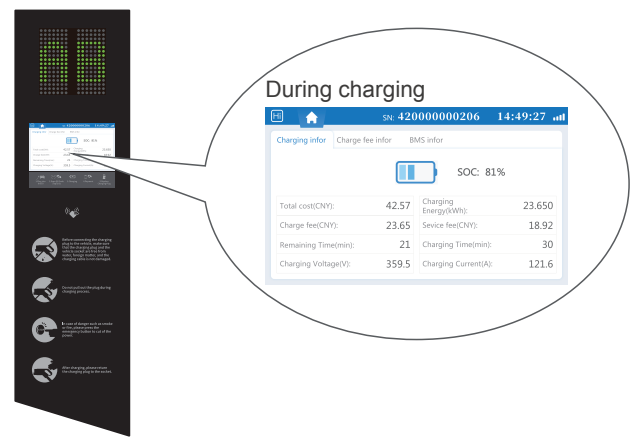
2) Connect the plug to the EV.



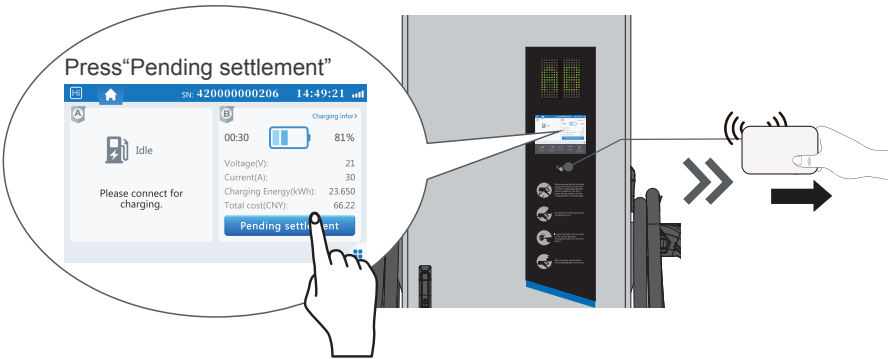
3) Swipe the authorized RFID card to start charging. The authorized RFID can be used directly without any activation or setting.



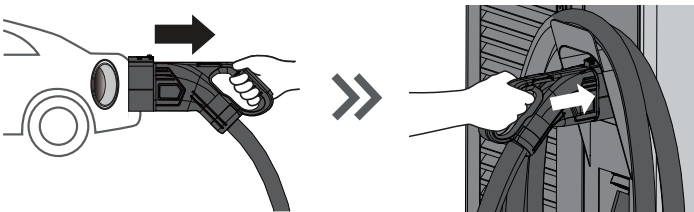
4) Once charging commences, status information is displayed on the screen. The following illustrations demonstrate the start to near complete charging procedure.



5) Swipe the authorized RFID card to stop.



6) Return the plug to the holder.



4 Indication and Fault

4.1 Indicator Status

	LED Light Status	Description of Charging status
AB	Green light on	The Charger is power on.
AB	Blue light blink	The charger is ready.
AB	Green light raising	The charger is working for EV.
AB	Red light on	Failure or alarm status, unable to charge.

4.2 Fault Code and Resolution(LCD display)

Fault Code	Fault Status	Troubleshooting suggestion
01	Card Detector	Check whether the connecting cable of the card reader is loose.
02	SPD	Check whether the SPD is abnormal.
03	Emergency	Reset emergency stop button.
04	Over voltage of Power Supply	Check whether the input voltage of the equipment is too high.
05	Under voltage of Power Supply	Check whether the input voltage of the equipment is too low.
06	Circuit breaker Status	Check whether the circuit breaker is opened.
07	Over temperature	Stop using for a period of time and wait for the equipment to return to the normal temperature range and restart.
08	Communication of Charge Module	Communication with the AC/DC module is broken.
09	Cabinet Door	The equipment access door is opened.
10	Storage state	Please specialized after-sales personnel.
11	Control System	Check the comm line between main and control board.

5 Warranty and Service

5.1 Customer Service

We can provide customers with professional product advice and purchase options. All emails will be responded within 48 hours during working days. We provide online customer service in multiple languages. You can communicate with ease, or contact us through email anytime.

5.2 After Service

The warranty of all our products is three years. The specific after-sale plan will be free for replacement or charging a certain maintenance cost according to the specific situations. During the warranty period, customers can apply for replacement or free maintenance for the fault damage caused by product quality. For the fault damage caused by other reasons (human factors, natural factors, etc.), we will provide paid maintenance services.

5.3 Contact Us

If you need to report for repair or inquire about charging product service, please call the company's customer service hotline +86 756 6931888 ext 6056 or through the official email sinoev@pmac.com.cn contact us.