

# EV Charging Solution

## Global Product Profile



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# Introduction

Zhuhai Piwin New Energy Co., Ltd. is a production-oriented enterprise integrating R&D, production, sales and service of intelligent EV charger products. Our products have more than 31 core technologies, obtained over 68 patents, and had passed the international quality system certification. To be the leading enterprise in this industry. The products have passed TUV, CE, Rosh, CB, Nemko, SAA, VDE, KC, BIS, CCC and other certification, UL certification is also under negotiation.

The company has long been engaged in the R&D and production of AC and DC chargers for new energy vehicles in overseas markets, and with the capabilities of OCPP protocol docking and overseas platform deployment. The company's technology in the field of EV chargers is unique, and it has rich experience in cooperation with overseas listed companies, fortune global 500, and new energy vehicle manufacturers.

Company's product concept: "Safe, Intelligent, Green, and Environmentally friendly".

Our products have been sent to some important potential markets such as Europe, North America, Japan, South Korea, Southeast Asia, etc. Contributing to the early realization of carbon neutrality in the world.

Mission: Contribute Efficient Charging Solutions For the Global Realization of Carbon Neutrality

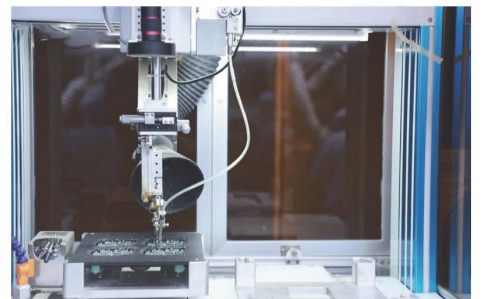
Vision: To be China's Leading Brand of EV Charger Overseas



## Why Choose Us?

### Manufacture Base

- Piwin has a scientific research and manufacture base of more than 20,000 square meters, ten electric vehicle charging equipment production lines, and as many as 300 production personnel.
- Fully automatic PCB SMT will ensure stable and reliable production of all hardware boards.
- Piwin will strictly control the quality of incoming materials and adopt redundant stocking mechanism to ensure the smooth delivery of products.
- With an intelligent production workshop, complete experiments and test instruments, the output quality will be strictly controlled.



Certification



ISO9001 Management System Certification



CMMI Level 3 Certification



National High-tech Enterprise Certification



LVD Certification



RoHS Certification



EMC Certification



Abide by the contract and re-credit Certification



AAA credit rating Certification



Key high-tech enterprises Certification



Design patent Certification



Utility model patents Certification



Invention patent certificate Certification

Global Partners



# Use Case



Residential Area



Commercial Building



Service Station



Refueling Station



Parking Lot

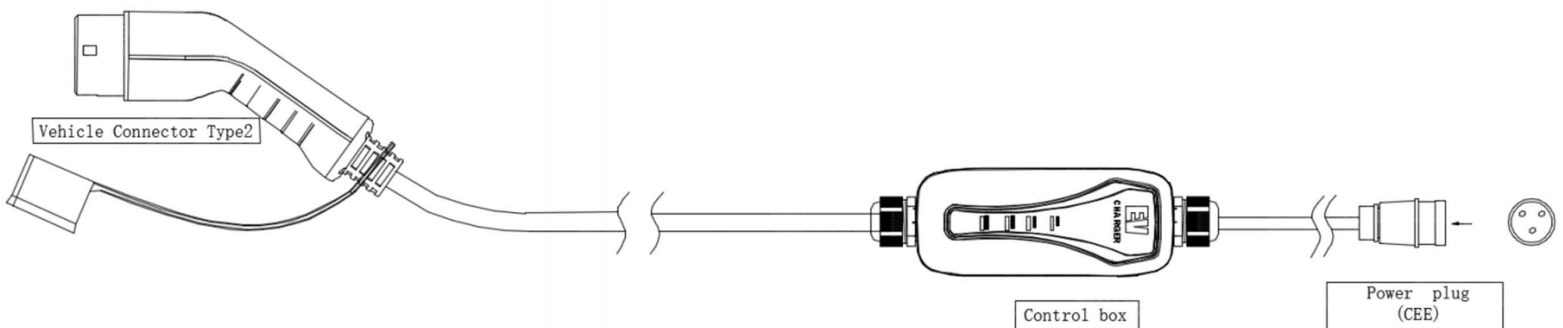
## NO.4 / Products

### PEVC3505E Series (3.5KW-7KW)



CE

 Product dimension



- Streamlined design with beautiful appearance
- The shell is designed as a whole
- The contacts of power terminal and signal terminal are silver plated
- Enterprise has passed ISO 9001:2015
- Ergonomic design at the handle, antiskid treatment
- Multiple seal structure design, excellent waterproof performance
- Products are available in many colors and can be customized according to requirements



NO.4 / Products

PEVC3505E Series (3.5KW-7KW)

Model	PEVC3505E				
Type		Type 1		Type 2	
Standard	IEC 62196-II b/e-2014				
Electrical Character	Rated voltage	250V (1-phase)			
	Rated current	16A	32A	16A	32A
	Rated power	3.5KW	7KW	3.5KW	7KW
	Voltage withstand	2500V AC 1min No breakdown			
	Insulance	1000MΩ			
Mechanical Character	Service life	≥10000 times			
	Insertion force	≤100N			
	Lock retention force	≥200N			
	Vehicle rolling	2 tons of vehicle rolled back and forth more than 3 times			
Environmental Performance	Operation temprature	-30°C-75°C			
	Ingress protection	IP54/IP55			
	Temperature rise	≤50K			
Material	Shell	Engineering plastics			
	Contacts	Copper alloy, silver plated			
	Seals	Green silicone rubber			
Cable Specification	1-phase 16A	3x2.5m <sup>2</sup> +2x0.5m <sup>2</sup> /3x14AWG+1x18AWG	3x2.5m <sup>2</sup> +2x0.5m <sup>2</sup>	3x6.0m <sup>2</sup> +2x0.5m <sup>2</sup>	

# Products

## PEVC2107E/PEVC2107U Series (3.7-22kW)



### Compact and Beautiful design

Scientific and technological appearance design, simple and practical, well-integrated. Modular design of functions can flexibly create exclusive configurations for different needs of users.



### Easy to Operate

Users can use different charging methods according to different scenarios: charging while inserting, starting and stopping by swiping cards, connecting mobile phones to APP, so as to prevent others from using your charger. Friendly human-computer interaction interface, simple operation procedure, so that gives users confidence every time when charging.



### Safety and Durable

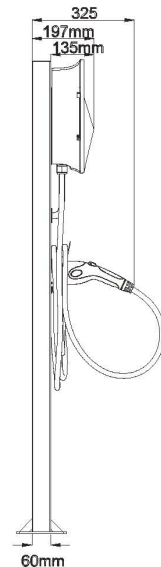
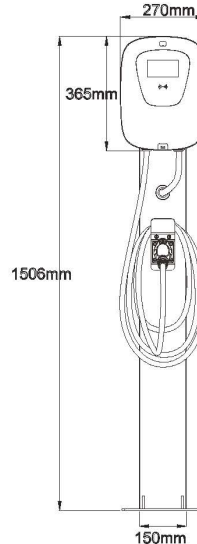
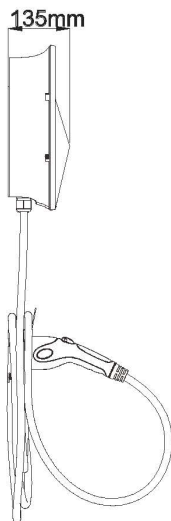
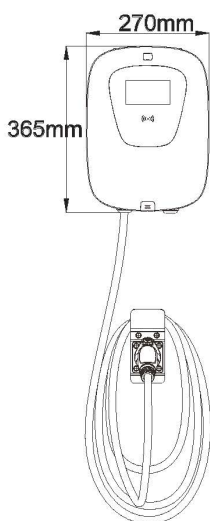
DC 6mA+Type A AC 30mA protection  
Excellent waterproofing level up to IP55  
It has flame retardant property, moistureproof, mildew proof and salt spray proof.



### Innovativeness

simple installation approach, blind installation positioning. low maintenance, Automatic fault diagnosis Easy to Maintain, Front door operation and maintenance.

## Product dimension



## NO.4 / Products

### PEVC2107E/PEVC2107U Series (3.5-7kW)

#### Specification

Model	PEVC2107E Series		PEVC2107U Series
	For Europe		North America
Power Input	Input Type	1-Phase	3-Phase
	Input Wiring Scheme	1P+N+PE	3P+N+PE
	Rated Voltage	230VAC±10%	400VAC±10%
	Rated Current	16A or 32A	
	Grid Frequency	50Hz or 60Hz	
Power Output	Output Voltage	230VAC±10%	400VAC±10%
	Maximum Current	16A or 32A	
	Rated Power	3.7kW or 7.4kW	11kW or 22kW
User Interface	Charge Connector	Type 2 Plug	
	Cable Length	5m or Optional	
	LED Indicator	Green/Blue/Red	
	LCD Display	4.3 Inch Touch Color Screen(Optional)	
	RFID Reader	ISO/IEC 14443 RFID Card Reader	
	Start Mode	Plug&Charge/RFID Card/APP	
Communication	Backend	Bluetooth / Wi-Fi /Cellular(Optional) / Ethernet(Optional)	
	Charging protocol	OCPP-1.6J	
Safety and Certification	Energy Metering	Embedded Meter Circuit Component With 1% accuracy	
	Residual Current Device	DC 6mA+Type A AC 30mA	
	Ingress Protection	IP55	
	Impact Protection	IK10	
	Cooling method	Natural Cooling	
	Electrical Protection	Over/Under Voltage Protection,Over Current Protection, Short Circuit protection, Over/Under Temperature Protection,Lightning Protection,Ground Protection	
	Certification	CE	
	Certification and Conformity	IEC61851-1,IEC62196-1/-2,SAE J1772	
Environment	Mounting	Wall-mount/Pole-mount	
	Storage Temperature	-40°C - +85°C	
	Operating Temperature	-30°C - +50°C	
	Max. Operating Humidity	95%, Non-condensing	
	Max. operating altitude	2000m	
Mechanical	Product Dimension	270mm*135mm*365mm (W*D*H)	
	Package Dimension	510mm*350mm*280mm (W*D*H)	
	Weight	5kg(Net ) / 6.7 kg(Gross)	
	Accessory	Cable Holder,Pedestal(Optional)	

## NO.4 / Products

### PEVC2201E/PEVC2201U Series (3.7-22kW)



Residential Area



Parking Lot



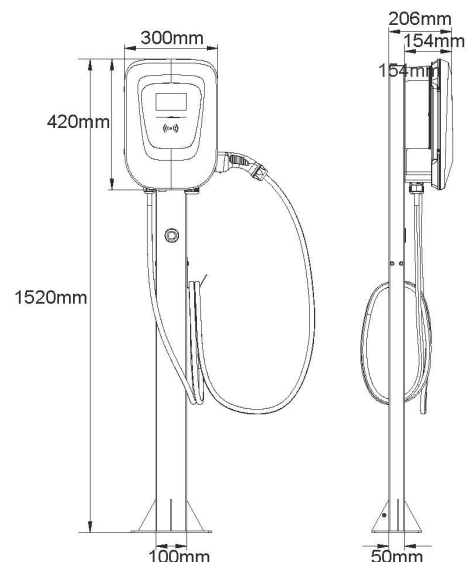
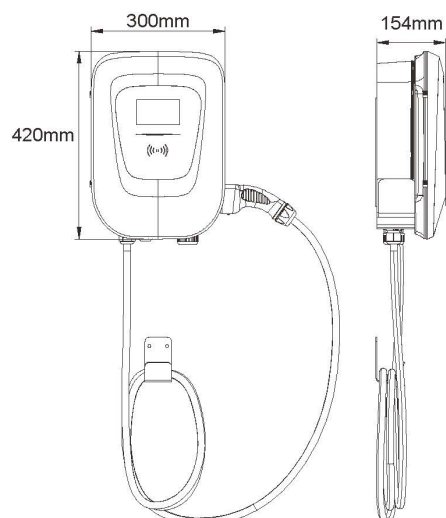
Commercial Building



Fleet



### Product dimension



#### Wonderful and Modern design

The appearance design has modern sense, simple and practical, perfect integration. Function modular design, flexible to create exclusive configuration for different needs of users.



#### Easy to Operate

Different charging methods can be used according to different scenarios: charging by inserting, starting and stopping by swiping, mobile phone blue APP, in order to prevent others from using your charger. Friendly human-computer interaction interface, simple operation process, so that every charge is full of confidence.



#### Safety and Durable

DC 6mA+Type A AC 30mA protection  
Excellent waterproofing level up to IP55.  
Flame retardant, moisture-proof, mildew proof, salt spray.  
It can adapt to different climates around the world, making your charger more durable.



#### Innovativeness

The installation method is extremely simple, blind installation positioning.  
low maintenance, Automatic fault diagnosis Easy to Maintain, Front door operation and maintenance.



#### RELIABLE

TUV and CE certification, equipment has passed strict testing and inspection, recognized by international organizations. In line with a number of global standards, reliable quality is trustworthy.  
MID certified electricity meter.

## NO.4 / Products

### PEVC2201E/PEVC2201U Series (7-14kW)

#### Specification

Model	PEVC2201E Series		PEVC2201U Series
	For Europe		North America
Power Input	Input Type	1-Phase	3-Phase
	Input Wiring Scheme	1P+N+PE	3P+N+PE
	Rated Voltage	230VAC±10%	400VAC±10%
	Rated Current	16A or 32A	
	Grid Frequency	50Hz or 60Hz	
Power Output	Output Voltage	230VAC±10%	230VAC±10%
	Maximum Current	16A or 32A	
	Rated Power	3.7kW or 7.4kW	11kW or 22kW
User Interface	Charge Connector	Type 2 Plug	
	Cable Length	5m or Optional	
	LED Indicator	Green/Blue/Red	
	LCD Display	4.3 Inch Touch Color Screen	
	RFID Reader	ISO/IEC 14443 RFID Card Reader	
	Start Mode	Plug&charge/RFID Card/APP	
Communication	Backend	Bluetooth / Wi-Fi /Cellular(Optional) / Ethernet	
	Charging protocol	OCPP-1.6J	
Safety and Certification	Energy Metering	Embedded Meter Circuit Component With 1% Accuracy	
	Residual Current Device	DC 6mA+Type A AC 30mA	
	Ingress Protection	IP55	
	Impact Protection	IK10	
	Cooling method	Natural Cooling	
	Electrical Protection	Over/Under Voltage Protection,Over Current Protection, Short Circuit Protection, Over/Under Temperature Protection,Lightning Protection,Ground Protection	
	Certification	CE,TUV	
	Certification and Conformity	IEC61851-1/-21,IEC62196-1/-2,SAE J1772	
Environment	Mounting	Wall-mount/Pole-mount	
	Storage Temperature	-40°C - +85°C	
	Operating Temperature	-30°C - +50°C	
	Max.Operating Humidity	95%, Non-condensing	
	Max. Operating Altitude	2000m	
Mechanical	Product Dimension	300mm*154mm*420mm(W*D*H)	
	Package Dimension	390mm*280mm*490mm(W*D*H)	
	Weight	5kg(Net ) / 6kg(Gross)	
	Accessory	Cable Holder,Pedestal(Optional)	

## NO.4 / Products

### PEVC3401E/PEVC3401U Series (30-40kW)



CE



#### High efficiency

High-power DC output, fill your car up quickly, make your trip more smooth.  
Up to 98% power factor, up to 95% charging efficiency, reduce energy waste, economic and environmental protection.



#### Excellent adaptability

Strong adaptability to application environment: it can be installed outdoors or indoors.  
Optional installation mode: wall mounting or column mounting.  
High car charging compatibility: 150-1000V voltage output of different levels, to meet the needs of different types of vehicles.



#### Intelligent control

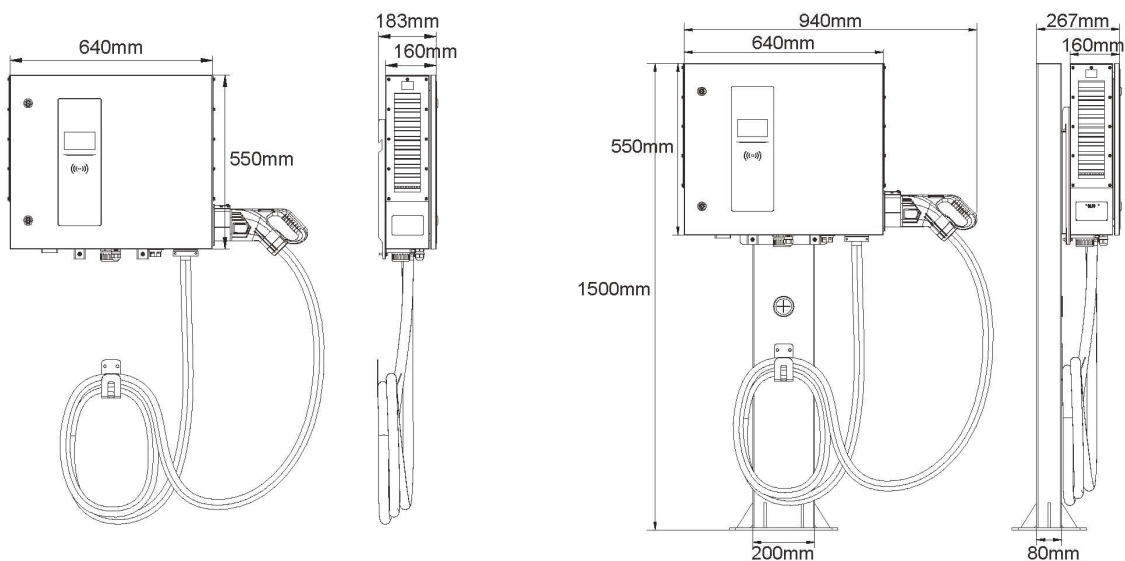
Equipped with international general OCPP-1.6 communication protocol, can be connected to the user's background management platform.  
Can charge by RFID swipe card, calculate charging fees for users to provide commercial functions.  
Touch screen control, convenient for maintenance personnel.  
Bluetooth/wi-fi/Ethernet / 4 G a variety of communication methods available for selection.



#### All-round security protection

Provide users with safe charging experience we have voltage, current, temperature, grounding, lightning, leakage protection and other electrical protection to ensure the normal use of users.  
The product reached the IK10 protection level, and passes the strict safety test before leaving the factory to ensure the safety performance of each product.

### Product dimension



## NO.4 / Products

### PEVC3401E/PEVC3401U Series (30-40kW)

#### Specification

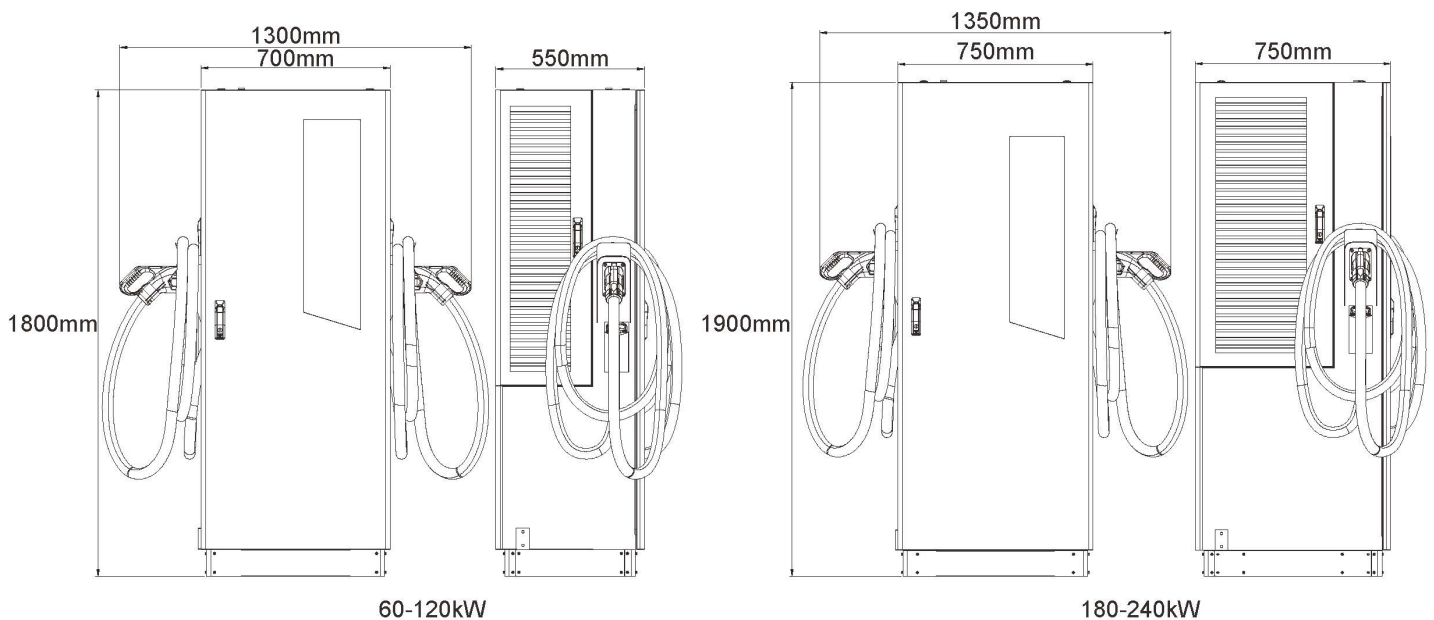
	Model	PEVC3401E Series	PEVC3401U Series
	For	Europe	North America
Power Input	Input Type	3-Phase	
	Input Wiring Scheme	3P+N+PE	
	Rated Voltage	400VAC±15%	
	Max. THDi	5%	
	Min. Power Factor	0.98	
	Grid Frequency	50Hz or 60Hz	
Power Output	Output Voltage	150-1000VDC	
	Max. Current	100A	125A
	Rated Power	30kW	40kW
User Interface	Charge Connector	CCS Combo 2 Plug	CCS Combo 1 Plug
	LED Indicator	Green/Blue/Red,Progress Indicator	
	LCD Display	4.3 inch Touch Color Screen	
	RFID Reader	ISO/IEC 14443 RFID Card Reader	
	Start Mode	RFID Card or APP	
Communication	Backend	Ethernet, Optional: Cellular/WiFi/Bluetooth	
	Charging protocol	OCPP-1.6J	
Safety and Certification	Energy Meter	Meter With 1% Accuracy	
	Residual Current Device	Yes	
	Internal FUSE	Yes	
	Ingress Protection	IP54	
	Impact Protection	IK10	
	Cooling method	Fan Cooling	
	Max. Operating Noise Level	65dB	
	Electrical Protection	Over/Under Voltage Protection,Over Current Protection, Short Circuit Protection, Over/Under Temperature Protection,Lightning Protection,Ground Protection	
	Certification	CE	
	Certification and Conformity	IEC62196-1/-3,IEC 61851-1/-23/-24	
Environment	Mounting	Wall-mount/Pole-mount	
	Storage Temperature	-40°C - +85°C	
	Operating Temperature	-40°C - +75°C	
	Max. Operating Humidity	95%, Non-condensing	
	Max. operating altitude	2000m	
Mechanical	Product Dimension	640mm*160mm*550mm (W*D*H)	
	Package Dimension	910mm*810mm*430mm (W*D*H)	
	Weight	55 kg(Net) / 82 kg(Gross)	
	Accessory	Cable holder, Pedestal(Optional)	

PEVC3107E/PEVC3107U Series (60-240kW)



- 
**High efficiency**  
 High power DC output, the maximum power is optional 240kW, which can improve charging efficiency and alleviate users' anxiety when charging. one charger with two plugs, intelligent distribution of single and double plugs in different scenarios of power output, full use of each kilowatt to reduce waste.
- 
**Excellent adaptability**  
 Strong adaptability to the environment: it can be installed outdoors and indoors. High car charging compatibility: 150-1000V voltage output of different levels, to meet the needs of different types of vehicles.
- 
**Intelligent control**  
 Quipped with international general OCPP-1.6 communication protocol, which can be connected to the user's backstage management platform. It can swipe by RFID to charge and calculate charging cost to provide commercial functions for users. Touch-screen control provides convenience for maintenance personnel. Bluetooth/wi-fi/Ethernet / 4G a variety of communication methods available for selection.
- 
**All-round security protection**  
 Provide users with safe charging experience, we have voltage, current, temperature, grounding, lightning, leakage protection and other electrical protection, to ensure the normal use of users. The product has the IK10 protection grade, and passes the strict safety test before leaving the factory to ensure the safety performance of each product.

 Product dimension





## NO.4 / Products

### PEVC3107E/PEVC3107U Series (60-240kW)

#### Specification

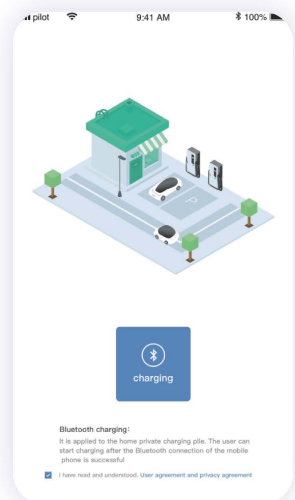
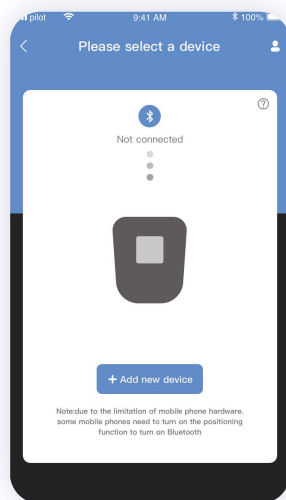
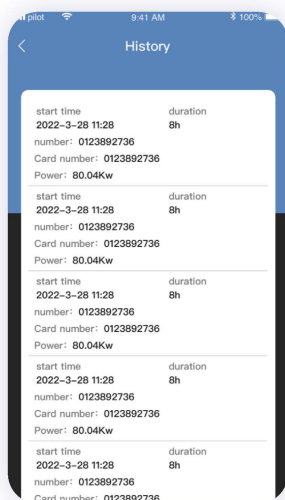
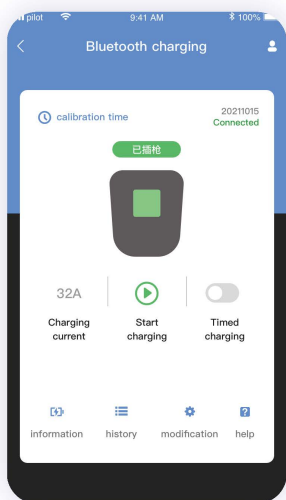
	Model	PEVC3107E Series	PEVC3107U Series
	For	Europe	North America
Power Input	Input Type	3-Phase	
	Input Wiring Scheme	3P+N+PE	
	Rated Voltage	400VAC±15%	
	Max. THDi	5%	
	Min. Power Factor	0.98	
	Grid Frequency	50Hz or 60Hz	
Power Output	Output Voltage	150-1000VDC	
	Maximum Current	200A	
	Rated Power	60-240kW	
	Number of Connectors	1 or 2	
User Interface	Charge Connector	CCS Combo 2 Plug	CCS Combo 1 Plug
	LED Indicator	Green/Blue/Red,Progress Indicator	
	LCD Display	7 Inch Touch Color Screen	
	RFID Reader	ISO/IEC 14443 RFID Card Reader	
	Start Mode	RFID Card or APP	
Communication	Backend	Ethernet,Optional: Cellular/W-iFi/Bluetooth	
	Charging protocol	OCPP-1.6J	
Safety and Certification	Energy Metering	Meter With 1% Accuracy	
	Residual Current Device	Yes	
	Internal FUSE	Yes	
	Ingress Protection	IP54	
	Impact Protection	IK10	
	Cooling method	Fan Cooling	
	Max. Operating Noise Level	65dB	
	Electrical Protection	Over/Under Voltage Protection,Over Current Protection, Short Circuit Protection, Over/Under Temperature Protection,Lightning Protection,Ground Protection	
	Certification	CE	
	Certification and Conformity	IEC62196-1/-3,IEC 61851-1/-23/-24	
Environment	Mounting	Free-standing Cabinet	
	Storage Temperature	-40°C - +75°C	
	Operating Temperature	-30°C - +55°C	
	Max. Operating Humidity	95%, Non-condensing	
	Max. operating altitude	2000m	
Mechanical	Product Dimension	700mm*550mm*1800mm or 750mm*750mm*1900mm(W*D*H)	
	Package Dimension	950mm*720mm*1950mm or 1000mm*920mm*2100mm(W*D*H)	
	Weight	257-366kg(Net)/276-386kg(Gross)	

# Software

## Connection APP

### Overview

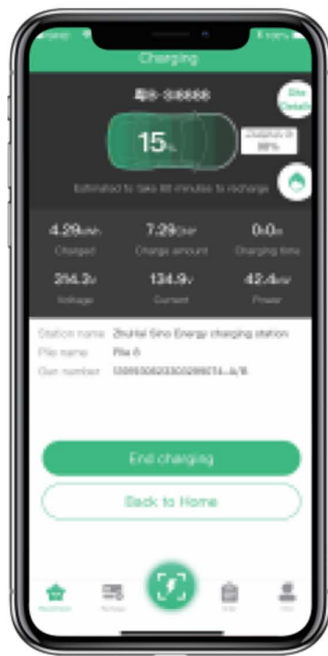
PIWIN ENERGY is an APP for connecting electric vehicle charger, through the mobile phone Bluetooth binding to the electric vehicle charger, can realize the functions of quick start and stop of the charging pile, regular charging, viewing charging information.



## Business APP

### Overview

PIWIN CHARGE APP is a client APP for electric vehicle owners to enjoy the charging service provided by the operator. Based on the real-time interaction between the client and the background, it provides electric vehicle owners with searching for charging piles, navigation, recharge consumption, appointment charging, record query, and status query. and other functions.



## PIWIN CHARGING



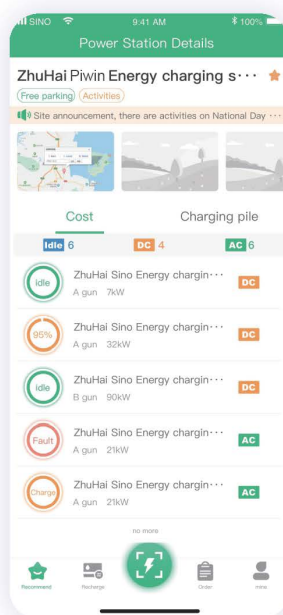
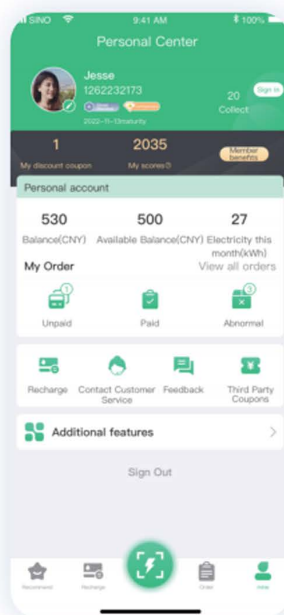
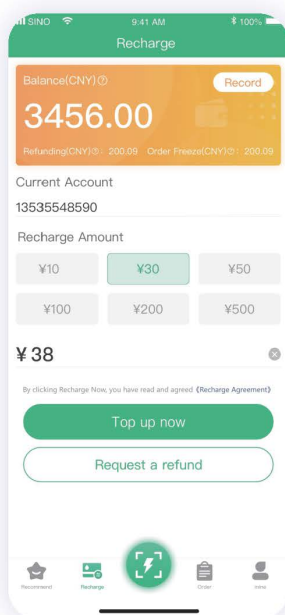
### Fast Search

Check charging pile status and site details in real time



### Real Time Monitoring

Full control of real-time data



EV charging management system



Overview

PIWIN's Charging Management System is a scalable and highly available distributed system with micro service architecture. It supports charging fault cloud backup protection mechanism, orderly charging management algorithm, which effectively enhances the safety monitoring of charging station.



# Successful Cases






Better Charging for Better life



Zhuhai PIWIN New Energy Co., Ltd

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 **Address:** Room No. 411, Building 1, No. 15, Keji 6 Road, ChuangXin Haian,  
Tangjia Hi-tech Zone,Zhuhai, Guangdong , China.

 **Website:** [www.piwinenergy.com](http://www.piwinenergy.com)

 **Contact:** [sales04@piwinnewenergy.com](mailto:sales04@piwinnewenergy.com)

 **Phone:** +86 14749313413