User manual

DC EV Charger PEVC3401E/PEVC3401U



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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



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 service areas, workplaces, residences, etc.

1.2 Product Characteristic



4.3 Inch LCD Display

LCD screen can display the real-time charging status, including time, voltage, current, power and temperature.

Convenient operation

Customers can get the convenience of full start and stop charging control through mobile phone Bluetooth or authorized RFID smart card.

IP54

Carries an outdoor rating capability of withstanding solid and liquid intrusions in outdoor settings, making the unit more stable and highly reliable.

High intelligence

Powerful information collection, transmission and communication functions, supporting Bluetooth, Ethernet, 4G and WIFI wireless communication.

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	PEVC3401E/U -30K1000N1	PEVC3401E/U -40K1000N1	
	Power Supply	3P+1	N+PE	
	Rated voltage	400VAC±15%		
la a ch	Frequency	50/6	50/60Hz	
Input	THDi	≤5%		
	Efficiency	≥95%		
	Power Factor	≥0.98		
	Connector Type	CCS Combo 1/CCS Combo 2		
	Voltage	150-1000VDC		
0.1.1	Maximum Current	100A	125A	
Output	Power Rating	30kW	40kW	
	Voltage Accuracy	≤0.	≤0.5%	
	Current Accuracy	≤±	≤±1%	
	HMI	4.3-Inch To	ouchscreen	
	Payment Method	RFID C	ard,APP	
	Cable Length	5m		
	Network Connection	Cellular modem:4G LAN:10/100 Base-T Ethernet		
	Communication Protocol	OCPP 1.6J		
	Operating Noise Level	≤60dBA		
	IIngress Rating	IP54		
	IK Rating	IK08		
	Power Meter	Accuracy Class 1.0 energy meter		
Quanta	Enclosure	Galvaniz	Galvanized steel	
General	Place of Installation	Indoor / Outdoor		
	Product Dimension(W*D*H)	650*160*550mm		
	Package Dimension(W*D*H)	750*330	750*330*750mm	
	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,IEC62106-3		
	Operating temperature	-30°C	~+55°C	
-	Storage temperature	-40°C~+75°C		
Environmental	Maximum Installation Height	≤2000m		
	Operating Humidity	5%~9	5% RH	

1.4 External Structure

Wall Mounting



Column Mounting



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.



2 Installation Instruction

2.1 Installation Preparation

Please prepare the following tools before installation:



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°.
- Ring terminal VE25-16 for L1/L2/L3/N wire (**25mm**² copper wire) in models with 380V-415V three-phase input.
- The cross sectional area of the power grid's protective earthing (PE) conductor shall have a cross-sectional area not less than **16mm**² in copper.

2.2 Wall Mounting Process







3) Pass the power cable through the bigger cable gland, crimp power terminal from the end of the power cable to be connected to the internal circuit breaker. Connect the ground wire(PE), neutral wire(N) and each phase(L) to the AC input configuration board.

2.2 Wall Mounting Process



2.3 Column Mounting Process



1) Make concrete platform, mark the holes position of installation column and drill holes.





2) Install expansion bolts in the base mounting holes. Fix the column on the concrete platform with expansion bolts(x4).

3) Install the bracket on the column.



2.3 Column Mounting Process



5) Pass the power cable through the bigger cable gland, crimp power terminal from the end of the power cable to be connected to the internal circuit breaker. Connect the ground wire(PE), neutral wire(N) and each phase(L) to the AC input configuration board.



6) Lock the charger cover with the key.



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 use 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.



3.3 Start and stop charging by APP(Bluetooth)



Step1

Scan the QR code on the left with your phone to download the application, the APP name of the Apple system is "SINO ENERGY", and the APP name of the Android system is "SINO ENERGY". Step 2 Turn on the phone's bluetooth.Click the Add new device icon to enter the search page. If you have used it before, you can click the head directly to select the device to connect.

Step 3

After entering the search page, find the available Bluetooth devices, and then click connect icon.

Step 4

If the connection is successful, it will return to the home page to display the charging information.



Step 5 Connect your EV car with the charger gun.

Step 6 Click the start charging icon and start charging.



4 Indication and Fault

4.1 Indicator Status

LED Light Status	Description of Charging status
 Green light on	The Charger is power on.
 Yellow light on	The charger is working for EV.
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	RTC fault	Please contact after-sales service.
02	Card reader fault	Check whether the connecting cable of the card reader is loose.
03	SPD fault	Check whether the SPD is abnormal.
04	EPO fault	Reset emergency stop button.
05	Over voltage alarm	Check whether the input voltage of the equipment is too high.
06	Under voltage alarm	Check whether the input voltage of the equipment is too low.
07	FRAM fault	Please contact after-sales service.
08	Flash fault	Please contact after-sales service.
10	Lean alarm	Place the charging point vertically.
11	DC meter fault	Check whether the meter connecting wire is loose.
13	Over temperature alarm	Stop using for a period of time and wait for the equipment to return to the normal temperature range and restart.
14	Module Comm fault	Communication with the AC/DC module is broken.
15	Guard alarm	The equipment access door is opened.

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.