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## SHELL Series EV Charger



7/11/22kW AC Charger

**Pingalax Digital Energy Technology Co., Ltd.**

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# CONTENTS

## About PINGALAX ..... 02

R&D strength, Scientific innovation

Main Business

Our Global Partners

## 7/11/22kW AC Charger ..... 05

Product Highlights

Core Advantages

Technical Parameters

# ABOUT PINGALAX

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Pingalax Digital Energy Technology Co., Ltd. is a technology enterprise dedicated to the R&D, production, sales and service of products in new energy fields such as electric vehicle charging, power supplies, photovoltaics, and energy storage. PINGALAX is committed to deeply integrating research accumulation in the semiconductor field and digital AIoT technology with the new energy industry, building a more efficient, cleaner, more economical and safer modern energy system, and providing global customers with full-scenario digital energy solutions.

PINGALAX makes layouts on the entire chain of chips, modules, core components, software and system design, and has a well-proportioned and experienced innovative R&D team. As of now, the proportion of the company's R&D personnel exceeds 60%, among which the proportion of masters and doctors exceeds 30%. The company has applied for and obtained hundreds of patents.

PINGALAX's main products include electric vehicle charging equipment, photovoltaic inverters, mobile energy storage power supplies, household and industrial and commercial energy storage systems, etc. The company's core products have successively passed many domestic and foreign authoritative certifications and tests such as TÜV, CNAS, CE, CCC, and UN38.3, and have been sold to more than 30 countries and regions around the world.

PINGALAX has been successively approved as a national high-tech enterprise, a national post-doctoral scientific research workstation, and a national "specialized, refined, peculiar and new" little giant, and has passed certifications such as the IATF16949 automotive industry quality management system, ISO9001 quality management system, and ISO/IEC27001 information security management system.

PINGALAX always adheres to the corporate culture of "customer-centric", adheres to the development concepts of technological innovation, low-carbon intelligent manufacturing, green development, and digital empowerment, adheres to open cooperation, and is willing to jointly develop clean energy technologies with global partners, accelerate the green energy revolution, and build a better future.

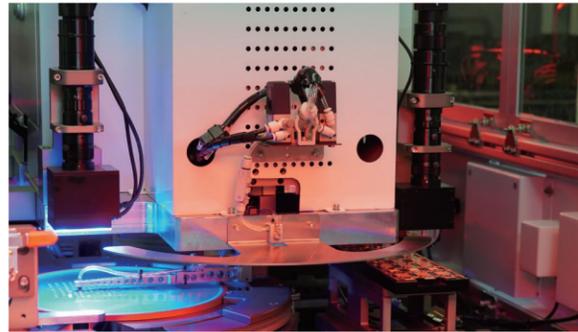
## // R&D strength, Scientific innovation

PINGALAX adheres to independent R&D and innovation. We invest a large amount of resources in the entire chain of chips - application end products - system integration - cloud services, builds a complete R&D system, and sets up R&D centers in Chongqing, Shenzhen and Southeast Asia to gather top global talents. In the field of digital energy, we are committed to creating technologies and products with core competitiveness and creating greater value for customers.

### ◆ Professional chip design



### ◆ Advanced manufacturing technology



### ◆ Comprehensive performance testing



### ◆ Complete R&D process



R&D personnel



Master&PhD

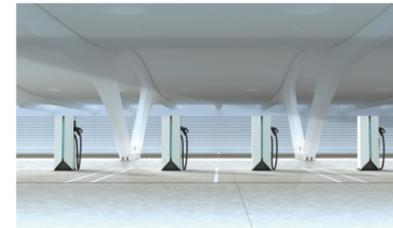


Patent applications



R&D invest

## // Main Business



Intelligent charging network



Distributed energy system



Portable&Home energy



New energy application solutions



Digital energy AIoT service

## // Our Global Partners



30+



Coverage countries/regions

200+



Global customers

70000+



Product registered users

70000+



Energy terminal connections

## SHELL Series

# 7/11/22kW AC Charger

The PINGALAX SHELL Series AC charger adopts a minimalist design with a small footprint. It is suitable for installation in residential garages, commercial parking spaces, and corporate parking lots. With PINGALAX's advanced AI digital platform, remote performance monitoring and intelligent O&M can be achieved, providing the best charging system solutions for car owners, O&M personnel, and operation managers.



Home Use



Commercial Real Estate



Parking Spaces at Office Building

## ▶▶ Intelligent Efficiency

### Advanced Power Electronics

Equipped with the latest self-developed power chips



### Cloud-based Intelligence

Ensure a smooth and safe charging experience with AI

Powered by PINGALAX OS

### Minimalist Appearance

Unique streamlined body



### Smart DLB Feature

Provide dynamic load management, reducing energy costs and preventing nuisance tripping of distribution protective devices

### Broad Range of Connectivity Options

Support Ethernet, Bluetooth, Wi-Fi, 4G, and RS485 connections

### User-centric Charging Options

Start charging through card swiping, QR code scanning, scheduled and plug charging



99%

Vehicle Adaptability



22 kW

Max Power



≥99%

Efficiency



3

Cover GB/T, IEC, UL Standard



10+

Protocol Support



IP65

High Protection Level

## ▶▶ User-centric Design



### ➤ Minimalist Design

Its streamlined frame and screenless design create a minimalist aesthetic. The indicator light shows the charging status, allowing users to clearly grasp usage status.

### ➤ Flexible Configuration

Suitable for both home and commercial use.

### ➤ Dedicated PINGALAX APP

Provides easy authentication and control of the AC charger. For home charging scenario, the APP can schedule charging during off-peak hours, making it more economical.

### ➤ Low-noise Design

The noise is below 40dB during charging, creating a quiet and undisturbed charging environment.

## ▶▶ High-value Quality



### Excellent Weather And Corrosion Resistance

Flame retardant UL94 V-0 and imported PC/ASA material offer an excellent level of weather-resistance and anti-corrosion capacity, which means the charger still remains in good condition in various environments.



### Multi-layered Safety Mechanism

Built-in protection mechanisms, including 8-layer safety protection, automatic power-off when fully charged, one-button emergency stop, etc., can assist stations and users to promptly detect and handle abnormal situations during charging, ensuring safe charging process.



### Strict Quality Control

Strict release tests on all products, including salt spray test, electrical performance test, waterproof test, dustproof test, power off and plug test, radiation interference test, etc., to ensure the quality of chargers from the source.



### OTA Upgrading

Cloud-based operations & management enables remote OTA upgrades, with lower operation and maintenance costs.



## ▶▶ Multi-standard Adaptation, Intelligent and Comprehensive

### ◆ Compatible with Multiple Standards



GB, Type2, Type1

### ◆ Streamlined Data Transfer

OCPP 1.6, OCPP 2.0.1 and more

### ◆ Powerful Cloud Operating & Management



### ◆ Tailored Service for OEM&ODM

Full-stack R&D enables tailored appearance, functions and solutions



## ▶▶ Technical Parameters

### SHELL AC EV Charger

PCAC-J5

Product Information	
Connector Type	IEC: Type 2, GB: GB, UL: Type 1
Number of Connectors	1
Cooling	Air cooled
Efficiency	99%
Cables	Standard: 5m
Measuring Accuracy	1%
Input and Output	
Input/output power rating and current	IEC / GB ratings: Single-phase up to 7 ~ 7.4kW / 32A, Three-phase up to 22kW / 32A UL ratings up to 11.5 kW / 48A
Input/output voltage	IEC: Single-phase: 230VAC±15% under 50/60Hz, Three-phase: 400VAC±15% under 50/60Hz GB: Single-phase: 220VAC±15% under 50/60Hz, Three-phase: 380VAC±15% under 50/60Hz UL: Single / Split phase: 240VAC±15% under 50/60Hz
Protection	Overcurrent, overvoltage, undervoltage, short circuit, overload, overtemp, ground fault, leakage and lightning protection
Mechanical	
Dimensions (H × W × D)	310mm × 224mm × 128mm
Mounting Type	Pedestal/Wall-mounted
Net Weight	About 4kg (Including standard cable. Weight may vary slightly depending on configuration)
Environmental	
Mounting Position	Indoor and Outdoor
IP Rating	IP65
Noise Level	< 40dB
Maximum operating altitude	≤ 2000m
Temperature range	-30°C ~ +50°C
Operating Humidity	5% ~ 95%RH non-condensing
Standards and Certifications	
Certification and Reports	CE (TÜV), CB, CNAS, CMA
Design Standards	IEC: IEC 61851-1 GB: GB/T 20234.1, GB/T 20234.2, GB/T 18487.1, NB/T 33002, NB/T 33008.2 UL: 2231-2
Interface	
Authentication Methods	RFID Card / PINGALAX App (Using Bluetooth or Wi-Fi) / Plug and charge / Scheduled charging
Internet Connection	Ethernet / 4G / Bluetooth&Wi-Fi
Communication Protocol	OCPP 1.6 / OCPP 2.0.1 / Stand-alone / Modbus RTU RS485 / Support other customized communication protocols