PINGALAX

Prime Series EV Charger

—

320-800kW Ultra-fast Charging Solution

Pingalax Digital Energy Technology Co., Ltd.

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ABOUT PINGALAX

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.

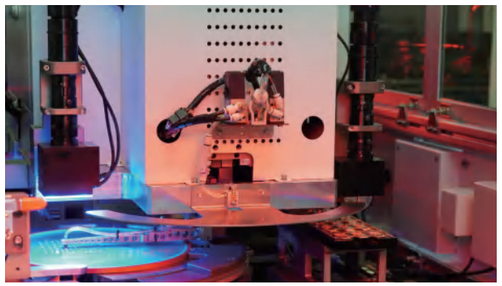
PINGALAX always adheres to the corporate culture of "customer-centric", adheres to the development concepts of technological innovation, low-carbon intelligent manufacturing, green development, and digital empowerment, adheres to open cooperation, and is willing to jointly develop clean energy technologies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

R&D strength, Scientific innovation

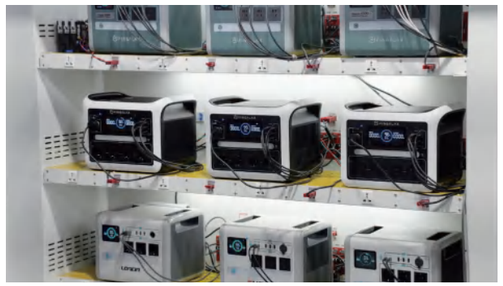
PINGALAX adheres to independent R&D and innovation. We invest a large amount of resources in the entire chain of chips - application end products - system integration - cloud services, builds a complete R&D system, and sets up R&D centers in Chongqing, Shenzhen and Southeast Asia to gather top global 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

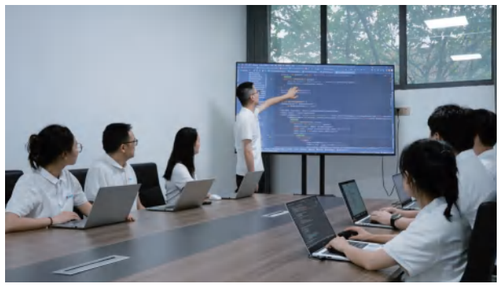
Advanced manufacturing technology



Comprehensive performance testing



Complete R&D process



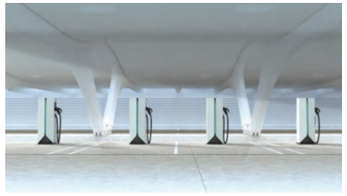
60%+ R&D personnel

30%+ Master&PhD

500+ Patent applications

25%+ 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

Prime Series

320-800kW Ultra-fast Charging Solution

PINGALAX Prime Series has a wide and adaptable power output ranging from 320kW, 480kW, 600kW, 640kW, 720kW to 800kW. Using a smart power allocation strategy, it can power up to 12 charging points. The split-system design also allows for flexible set-up, lower noise, easier maintenance and better heat dissipation, ensuring optimum user experience.

Public Charging

Fleet Operating

Commercial Real Estate

Advanced Power Electronics

Equipped with the latest self-developed power chips

In-house Power Modules

Adopts self-developed power modules
Safer and more reliable

Optimized Product Architecture

Multiple combinations and specifications are available to meet the needs of charging stations at all levels

User Centric Desgin

Ergonomic design and optimized operation process

Efficient Cooling

Liquid-cooled Ultra-fast dispenser.
Active heat dissipation and intelligent temperature control

Cloud-based Intelligence

Ensure a smooth and safe charging experience with AI

Powered by PINGALAX OS

99%
Vehilcle Adaptability

800kW
Max Power

≥95%
Efficiency

600A
Max Current per Connector

IP65
High Protection Level

12
Max Number of Dispensers

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Effortless Smart Charging Experience

Split-System Design

Up to 100m between the power cabinet and the dispensers， which allows for flexible set-up, lower noise, easier maintenance and better heat dissipation.

Intuitive Interface Experience

The high-definition touch screen dynamically displays information such as charging methods, electricity price, and charging status, enhancing user's experience.

Multiple Dispensers Options

Up to 12 Fast or Ultra-fast charging terminals can be supplied with just one power cabinet.

With dedicated APP, you can find charger with one click, check electricity prices, charging data,etc.

Geometric-cut Design

London Design Awards prize winner.
Platinum Award of American Good Design
Triangular-cut shape at the bottom with vertical LED light bar displaying charging status creats a strong visual impact.

Reliability & Efficiency Oriented

Smart Charging Control Algorithm

Digital current sharing and fast startup ensure efficient operation.

Smart DLB Feature

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

Optimal Performance and Efficiency

In-house power module significantly improves charging efficiency.
Charge up to 12 vehicles simultaneously.

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.

Intelligent and Comprehensive

Ultra-wide Voltage Range

Featuring 200–1000V charging voltage range to support the existing and next-generation EVs.

Steamlined Data Transfer

OCPP 1.6, OCPP 2.0.1 and more

Powerful Cloud Operating & Management

CHARGE 平易充+

Tailored Service for OEM&ODM

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

Prime Plus series

Ultra-Fast Charging Terminal

Fast Charging Terminal

Fast Charging Terminal

Prime series

Ultra-Fast Charging Terminal

Fast Charging Terminal

Fast Charging Terminal

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Technical Parameters

Prime Series Split-Type DC EV Charger

Rectifier Unit (Rectifier Cabinet)
PCDC-FZ1/FZ2

Product Information									
Product Model	P800 Plus	P720 Plus	P640 Plus	P600 Plus	P640	P600	P480	P360	P320
Power Rating	800kW	720kW	640kW	600kW	640kW	600kW	480kW	360kW	320kW
Maximum Number of Charging Connectors	10	12	8	10	8	10	8	6	8
Dimensions (W × D × H)	1800mm × 900mm × 1780mm				1230mm × 870mm × 2000mm				
Mounting Options	Pedestal-mounted								
Efficiency	⩾95%								
Power Cooling	Forced-air-cooled								
Input Characteristics									
Input Voltage	3-phase 380VAC±15%								
Input Frequency	45Hz~65Hz								
Power Factor	⩾0.99								
Harmonic	⩽5%								
Output Characteristics									
Output Voltage	200-1000 VDC (Constant Power Range: 300-1000 VDC)								
Constant Current Accuracy	⩽ ±1%								
Constant Voltage Accuracy	⩽ ±0.5%								
Load Regulation	⩽ ±0.5%								
Ripple Factor	⩽ ±0.5%								
Environmental									
Operating Temperature	-30~+55℃ (Derated power output above 55°C)								
Storage Temperature	-40~+75℃								
Altitude	⩽2000m								
Operating Humidity	5% to 95% RH, non-condensing								
Noise	⩽65dB								
Ingress Protection	IP54								
Standards and Certifications									
Certification and Reports	CNAS, CMA								
Design Standards	GB/T18487.1-2015、NB/T33001-2018、NB/T33008.1-2018、GB/T27930-2015、JJG1149-2022								
Safety Protection	Over Voltage, Under Voltage, Overload, Short Circuit, Ground Fault, Over Temperature, Lightning Protection, Emergency Stop, Leakage Current, Insulation Monitoring, Door Open, Contactor Sticking, Water Ingress Protection								

Prime Series Split-Type DC EV Charger

Charging Unit (Charging Terminal)
PCDC-SD1/KD1

Product Information		
Charging Unit	Ultra-Fast Charging Terminal	Fast Charging terminal
Maximum Power per Charging Connector (Vehicle Dependent)	600kW	250kW
Number of Charging Connectors	1	1/2
Cable Length	3.5m	5m
Dimensions (W × D × H)	500mm × 280mm × 1444mm	420mm × 220mm × 1300mm
Mounting Options	Pedestal-mounted	
Power Cooling	Liquid Cooling	Natural Cooling
Output Characteristics		
Output Voltage	200~1000VDC	
Maximum Current per Charging Connector	600A	250A
Environmental		
Operating Temperature	-30~+55℃ (Derated power output above 55°C)	
Storage Temperature	-40~+75℃	
Altitude	⩽2000m	
Operating Humidity	5% to 95% RH, non-condensing	
Noise	⩽60dB	⩽50dB
Ingress Protection	IP54	
Standards and Certifications		
Certification and Reports	CNAS, CMA	
Standards and Certifications	GB/T18487.1-2015, NB/T33001-2018, NB/T33008.1-2018, GB/T27930-2015, JJG1149-2022	
Safety Protection	Over Voltage, Short Circuit, Protective Earth Continuity Monitoring, Over Temperature, Emergency Stop, Leakage Current, Insulation Monitoring, Door Open, Power Loss, Low Liquid Level Alarm, Contactor Sticking Protection	
Interface		
Authentication Methods	QR Code / RFID Card / VIN (Optional)	QR Code / RFID Card / VIN / Plug and Play Charging
Display	4.3-inch Touchscreen (Optional)	7-inch Touchscreen
Internet Connection	EtherNet / 4G / Wi-Fi	
Charging Terminal/Rectifier Unit Communication Protocol	CAN bus	
Charging Terminal/Platform Communication Protocol	OCPP 1.6 / OCPP 2.0.1	