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Mondrian Series EV Charger


— 20-40kW DC Fast Charger

Pingalax Digital Energy Technology Co., Ltd.

 **Be our partner**

 www.pingalax.com

 contact@pingalax.com

 400-826-0298



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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.

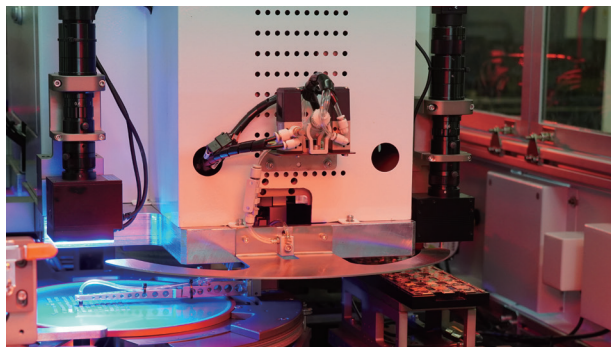
// R&D strength, Scientific innovation

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.

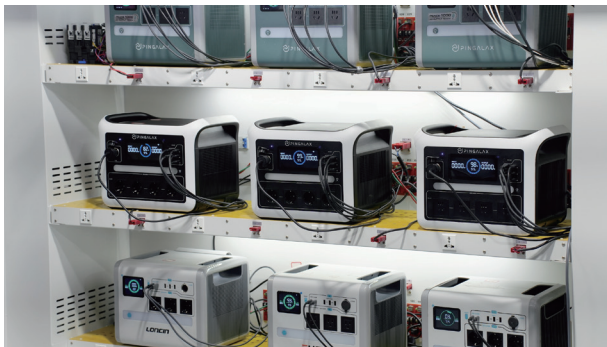
◆ Professional chip design



◆ Advanced manufacturing technology



◆ Comprehensive performance testing



◆ Complete R&D process



R&D personnel



Master&PhD

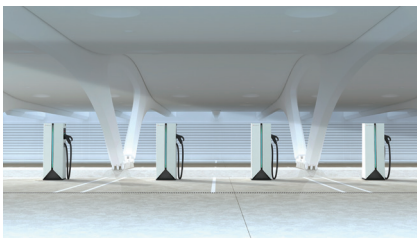


Patent applications



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



Coverage countries/regions



Global customers



Product registered users

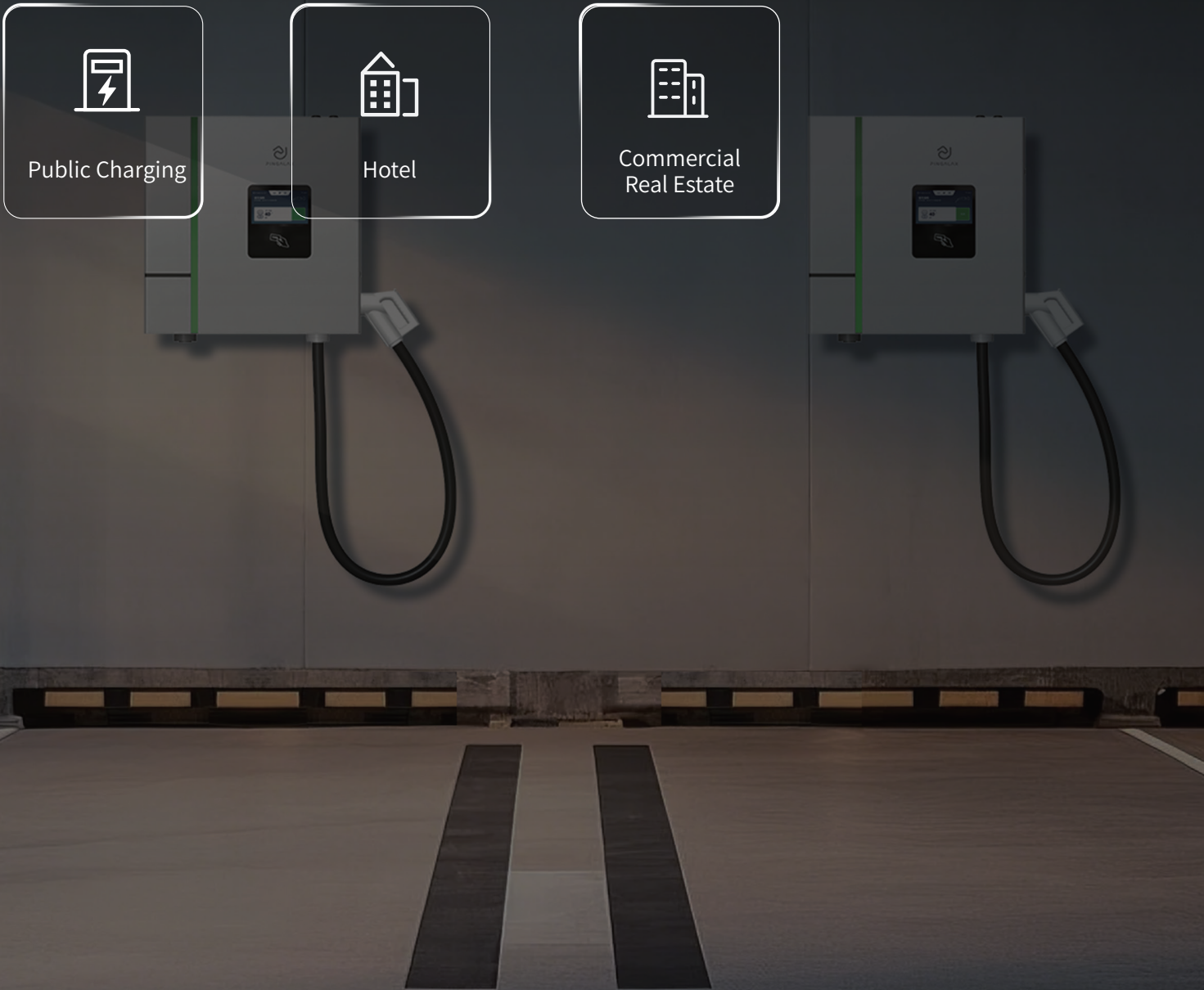


Energy terminal connections

Mondrian Series

20-40kW DC Fast Charger

The PINGALAX Mondrian Series (Mondrian Series) is a DC charger designed and developed in response to the growing demand for convenient fast charging based on in-house developed and produced charging modules and controller. Compared with high-power DC charger, it is more flexible in installation (supporting wall-mounted and vertical types) and is suitable for scenarios such as public charging, hotels, and small commercial scenarios. 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.



A Combination of Chips and Software
Defines a New Generation of Fast Charger Technology

Advanced Power Electronics

Equipped with the latest self-developed power chips



Modular Design

Strong scalability and easy maintenance

User Centric Design

A combination of aesthetics and practicality
Optimized operation process



In-house Power Modules

Adopts self-developed power modules
Safer and more reliable

Cloud-based Intelligence

Ensure a smooth and safe charging experience with AI

Powered by PINGALAX OS

Efficient Cooling

Active heat dissipation and intelligent temperature control



99%
Vehicle Adaptability



40 kW
Max Power



≥95%
Efficiency



125 A
Max Current

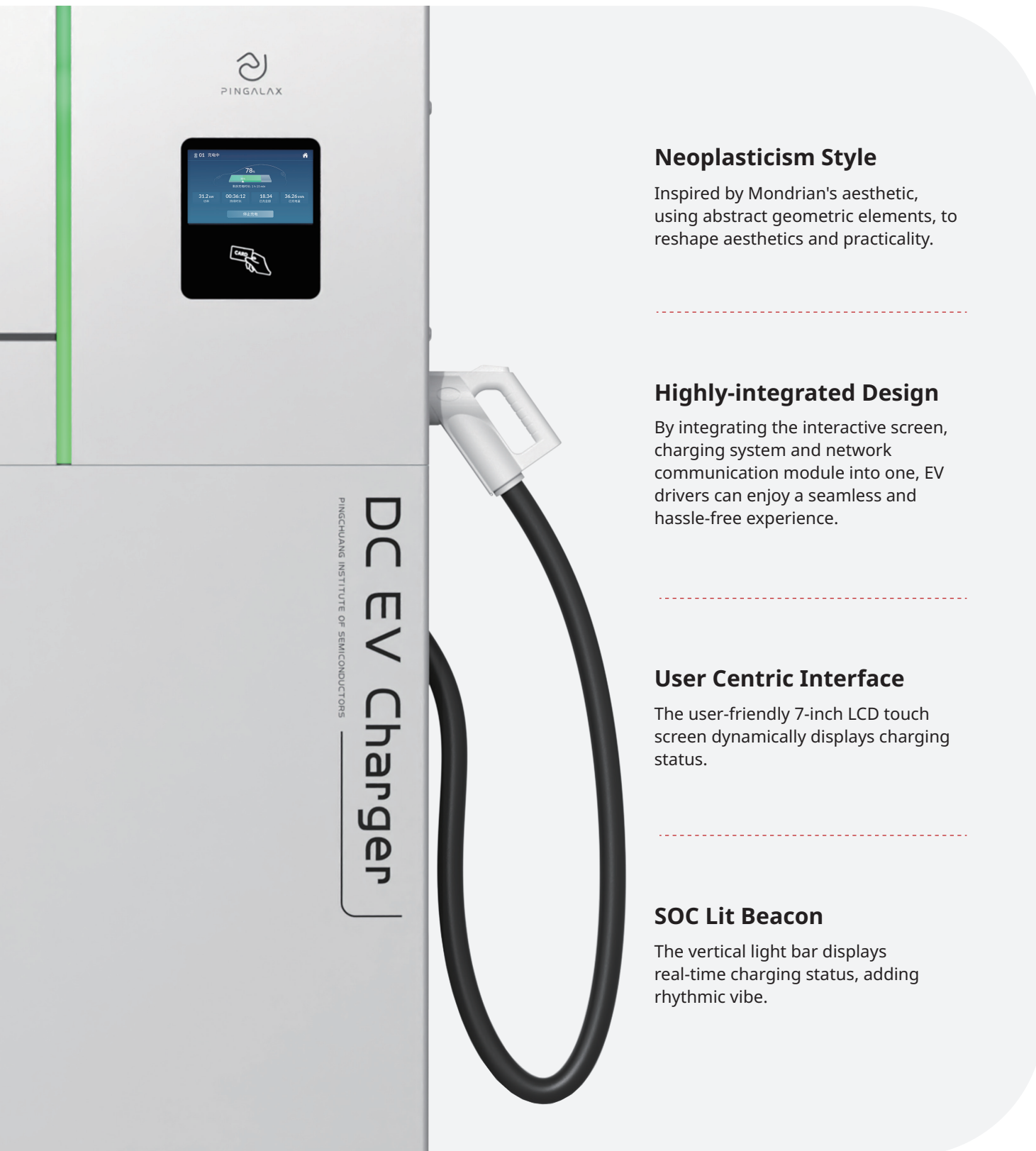


10+
Protocol Support



IP54
High Protection Level

►► Aesthetics Meets Functionality



Neoplasticism Style

Inspired by Mondrian's aesthetic, using abstract geometric elements, to reshape aesthetics and practicality.

Highly-integrated Design

By integrating the interactive screen, charging system and network communication module into one, EV drivers can enjoy a seamless and hassle-free experience.

User Centric Interface

The user-friendly 7-inch LCD touch screen dynamically displays charging status.

SOC Lit Beacon

The vertical light bar displays real-time charging status, adding rhythmic vibe.

►► Reliability & Efficiency Oriented

Optimal Performance and Efficiency

In-house power module not only improves charging efficiency, ensuring a safer and more stable charging process, but also provides a full range of after-sales service guarantees, allowing for worry-free experience for users.

Smart DLB Feature

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

Multi-layered Safety Mechanism

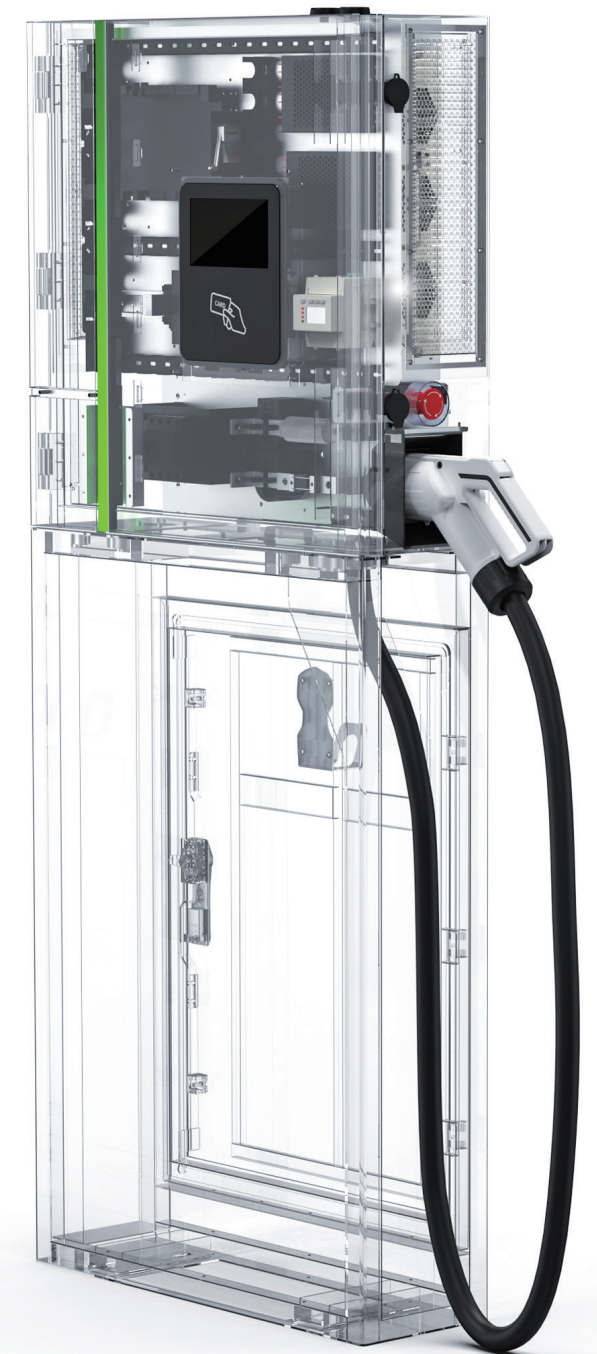
Built-in protection mechanisms, including 8-layer safety protection, automatic power-off when fully charged, one-button emergency stop, etc., can assist stations and users to promptly detect and handle abnormal situations during charging, ensuring safe charging process.

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



Streamlined Data Transfer

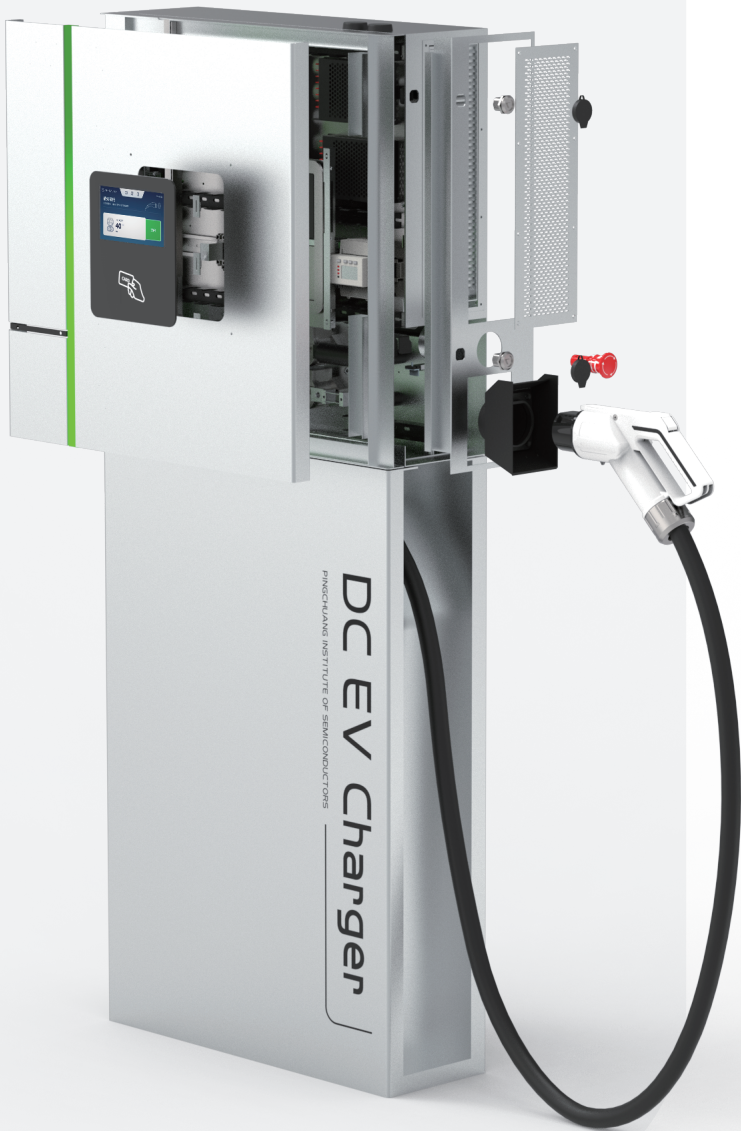
OCPP 1.6, OCPP 2.0.1 and more

Powerful Cloud Operating & Management



Tailored Service for OEM&ODM

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



►► Technical Parameters

Mondrian Series DC EV Charger PCDC-WZ2

Product Information			
Product Model	M20	M30	M40
Power Rating	20kW	30kW	40kW
Dimensions (W × D × H)	670mm × 217.7mm × 670mm		
Mounting Options	Wall-mounted / Pedestal-mounted		
Efficiency	≥95%		
Power Cooling	Forced-air-cooled		
Charging Port	GB/T, CCS2		
Cable Length	5m		
Input Characteristics			
Input Voltage	GB: 3-phase 380VAC±15%, IEC: 3-phase 400VAC±10%		
Input Frequency	50/60Hz		
Power Factor	≥ 0.99(at loads above 50%)		
Output Characteristics			
Output Current	0~67A	0~100A	0~125A
Output Voltage	200~1000VDC		
Environmental			
Operating Temperature	GB: -30~+55℃ (Derated power output above 55℃), IEC: -30℃~50℃(full power) / 50℃~75℃ (limit power)		
Storage Temperature	-40℃~70℃		
Operating Humidity	5~95%RH, non-condensing		
Altitude	≤ 2000m		
Noise	< 65dB		
Ingress Protection	IP54		
Standards and Certifications			
Certification and Reports	CE (TÜV), CB		
Design Standards	GB/T 20234, GB/T 18487, GB/T 27930, NB/T 33001, NB/T 33008		
Safety Protection	Over Voltage, Under Voltage, Short Circuit, Over Current, Over Temperature, Ground Fault, Leakage Current, Lightning, Charging Connector Temperature Monitoring Protection		
Interface			
Authentication Methods	QR Code / RFID Card / VIN (Optional)		
Display	7" Touch Screen		
Internet Connection	EtherNet / 4G / Wi-Fi		
Communication Protocol	OCPP 1.6, OCPP 2.0.1 and more		

*M20 is only compatible with GB standard.