

HARDHITTER

— **HARDHITTER** —

Let Users Enjoy a Green Energy Environment

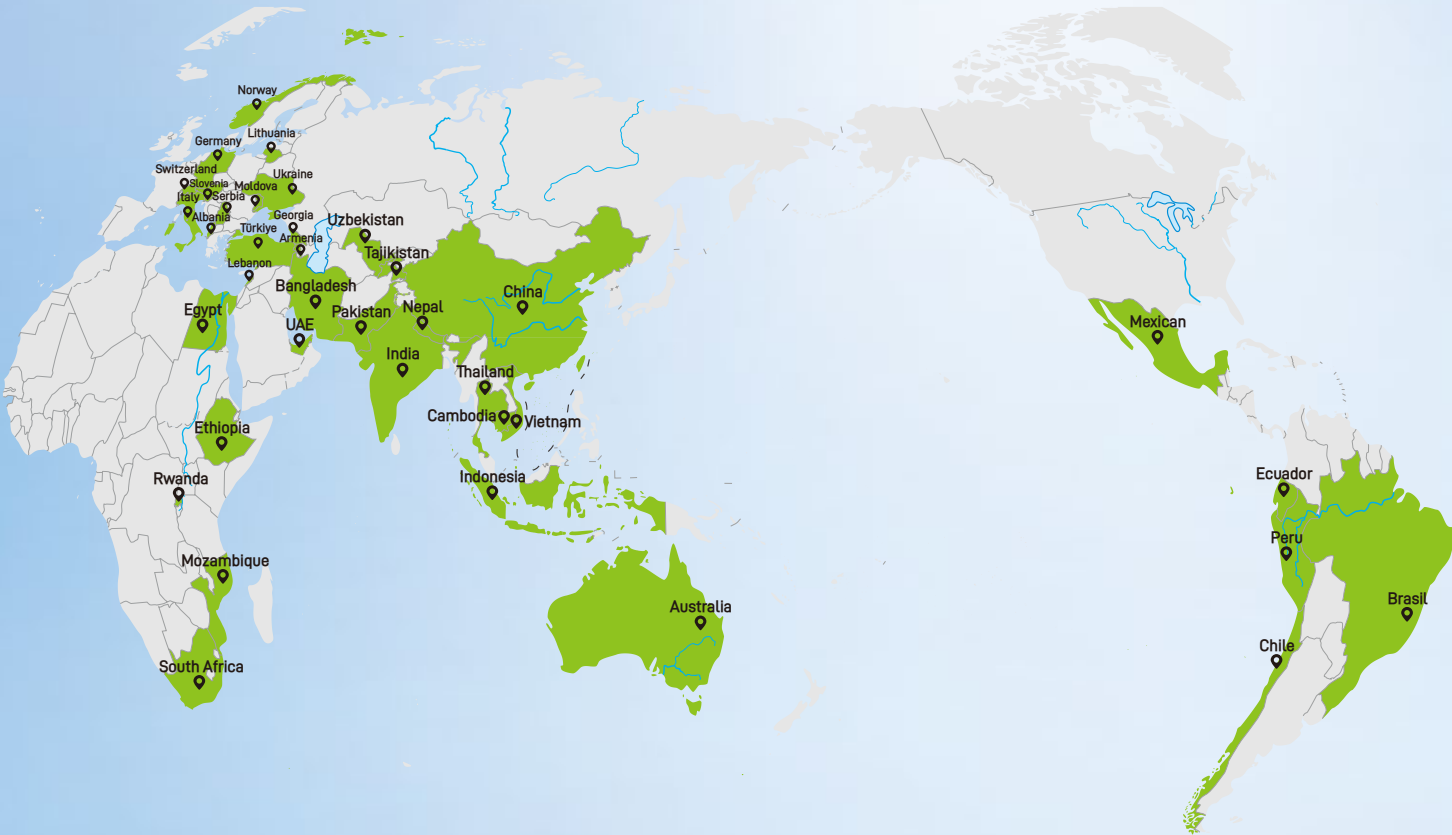
EV CHARGING SOLUTIONS

 Qingdao Hardhitter Electric Co., Ltd.

 www.hardhitter.net



Let Users Enjoy a Green Energy Environment



8000+
Charging Stations



100000+
Charging Piles



3000+
Enterprise Clients



17
Years' History

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01 About Hardhitter

● Company Profile

Hardhitter Electric is a high-tech enterprise that integrates R&D, design, production, sales, and service. The company' s main products include charging systems for new energy vehicles and integrated power supply products for intelligent substations, which are applied in urban fast charging stations, bus charging stations, as well as domestic and international smart substations.

Since its establishment in 2009, the company has been committed to the R&D and production of power electronic products and possesses over 100 independent intellectual property rights.

Main Products

- Intelligent Power Scheduling Charging System
- Integrated Charging System
- Super Charging System
- Engineering Vehicle Charging Solutions
- Charging Cloud Platform

Solutions

- Home Charging
- Business Charging
- Super Charging
- Special Scenarios
- Energy Storage Charging



02 Patents & Certifications

200+
Independent Patents

30+
Standard Settings

100+
Software Copyrights



- A member of the National Technical Committee for Standardization of Electric Vehicle Charging Facilities in China;
- A committee member of the IEC Megawatt Charging Standardization Group (IEC/TC 69 MT5 Working Group);
- A core member of the International ChaoJi High-Power Charging Working Group;
- A member of the Energy Industry Standardization Technical Committee;
- The company has been deeply involved in the formulation and revision of multiple international, national, and industry standards.



HARDHITTER charging products have obtained nearly 100 international certifications and professional test reports, including CE, CB, TUV Mark, RCM, and OCPP. As a technological pioneer in the industry, we are committed to leading innovation and application in electric vehicle charging technology.

03 Technical Advantages

The Intelligent Power Scheduling EV Charging System

The Hardhitter intelligent power scheduling charging system is the first of its kind developed domestically and internationally with fully independent intellectual property rights. This technology was proposed in 2014 and granted an invention patent in 2016. Currently, other charging schemes on the market, such as flexible charging and charging stacks, are all evolved from the Hardhitter intelligent power scheduling architecture.

The three technical advantages of the intelligent power scheduling EV charging system achieve maximum efficiency and optimal lifecycle cost.



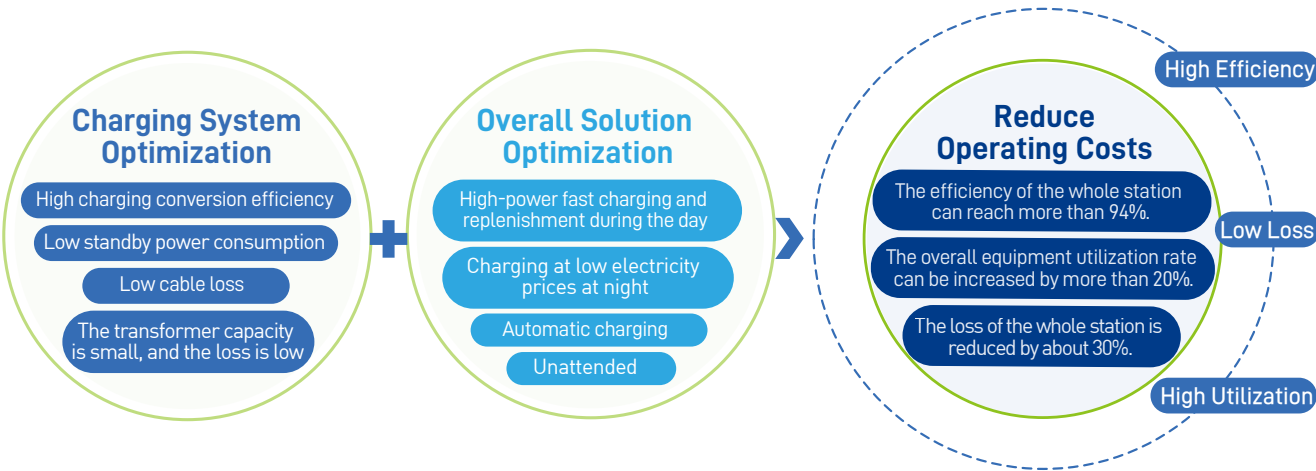
Highly Synergistic Investments

It can meet the charging needs of different types of vehicles and various charging scenarios. Not only can it charge different vehicle types, but it also ensures optimal charging performance. Power for EVs is optimally scheduled at all times. It supports both self-use and public operation models, such as bus charging stations.



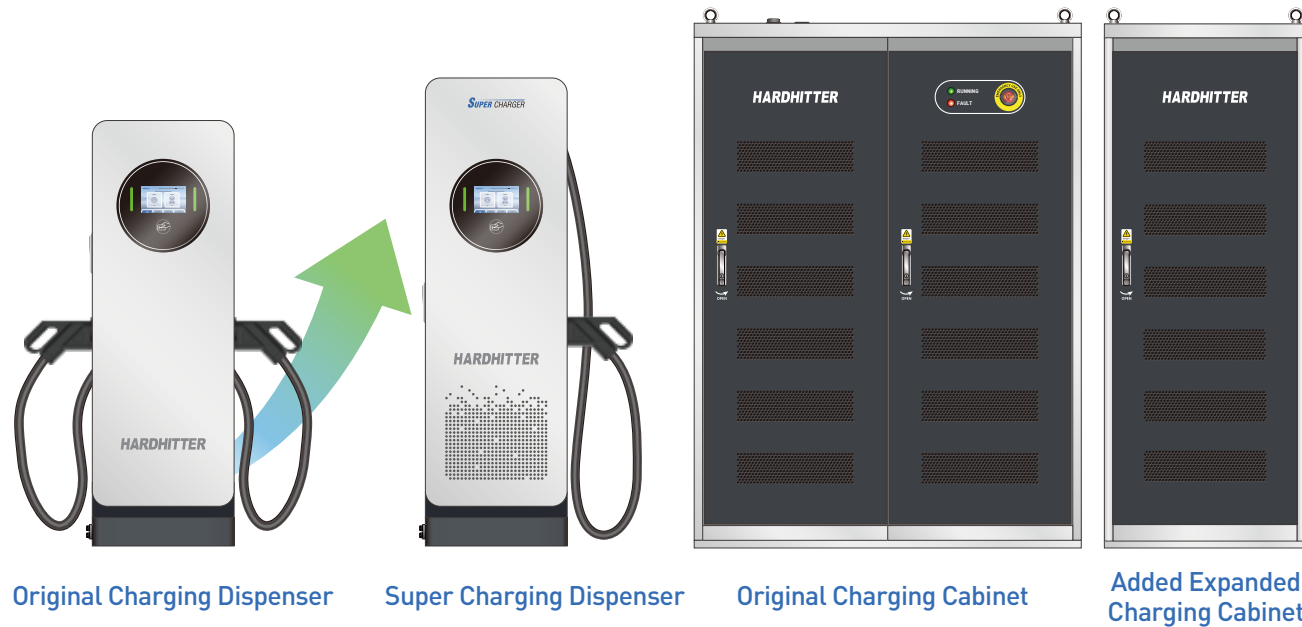
The certificate of invention patent

Absolutely Efficient Operations



From system design to the complete station solution, the Hardhitter intelligent power scheduling charging system achieves multi-layer optimization, improving overall charging efficiency, reducing equipment loss, and significantly lowering operating costs. The power module operates at its most efficient point thanks to the matrix topology.

Smooth Power Capacity Expansion



The pain points in promoting electric vehicles are range and charging speed. Therefore, charging systems must fully consider future market needs and accommodate high-power charging upgrades for future electric vehicles.

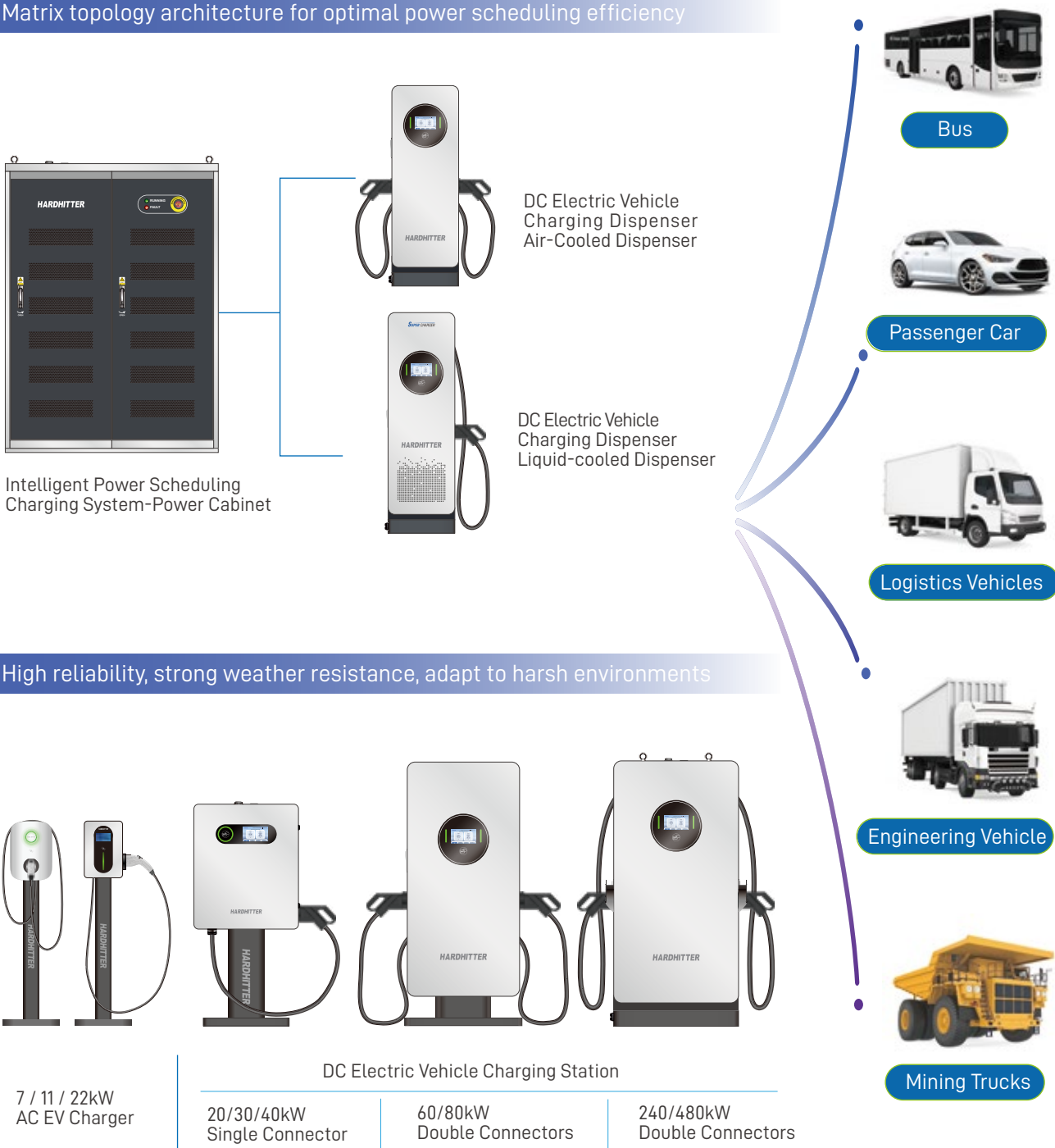
- Power can be expanded limitlessly in a modular manner.
- Fast charging dispensers can be upgraded to liquid-cooled super high-power charging dispensers.
- Investment can be scaled gradually as the penetration rate of high-power charging vehicles increases.

04 Solutions & Products

● Provide a Full Range of Charging Solutions

Hardhitter provides customized solutions for charging electric vehicles, offering a full range of charging products.

Matrix topology architecture for optimal power scheduling efficiency

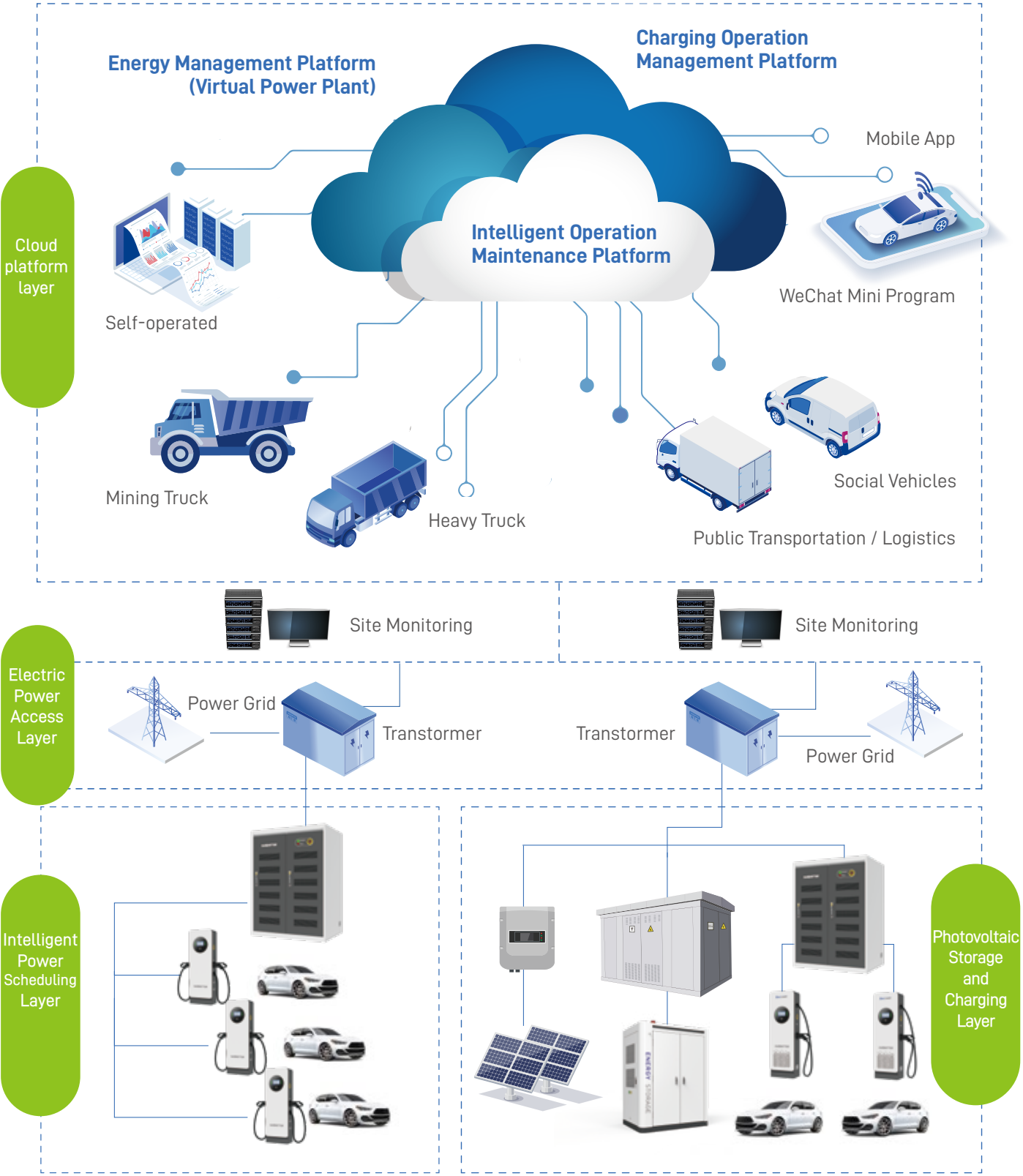


High reliability, strong weather resistance, adapt to harsh environments

Full Scenario Charging Solution

Full-process charging technology service provider

From survey and design to manufacturing, installation, and smart operation, we provide efficient, reliable, and sustainable one-stop services.



AC EV Charger



Rich Configuration

- Configurations: 7kW, 11kW, and 22kW.
- Connectivity: CASE B & C.
- Application: Home and commercial.

Dynamic Load Management

- Addresses distribution challenges to deliver safe, reliable charging.

10+ Safety Protections for Worry-Free Charging

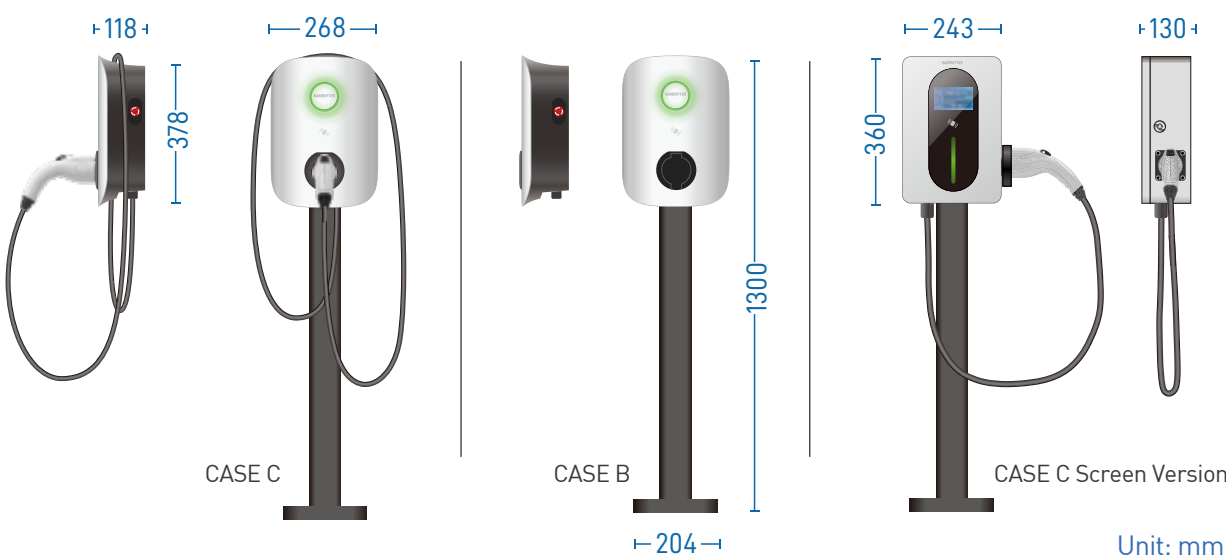
- Electrical: Leakage, overcurrent, short circuit, ground continuity.
- Operational: Overtemperature monitoring and emergency stop.

Multiple Networking Methods

- Connectivity: 4G, WiFi, Ethernet.
- Protocol: OCPP 1.6J compliant for universal platform integration.

Various Startup Methods

- Multiple Start Options:
Plug & Charge, QR Code, RFID Card, Mobile App, Remote, Reservation.



Technical Specifications

• Performance			
Rated Output power	7kW	11kW	22kW
Rated Output voltage	AC230V	AC400V	AC400V
Rated Output current	32A	16A	32A
Input Voltage	AC230±10%	AC400V±10%	AC400V±10%
Power Supply	TT, TN		
Enter Thefrequency	50Hz / 60Hz		
RCD	AC 30mA+DC 6mA		
• Mechanical Specifications			
Installation	Wall-mounted / Floor-mounted		
IP Level	IP66(CASE C) / IP54(CASE B) / IP55(CASE C Screen Version)		
IK Level	IK10(enclosure)		
Enclosureprotection	Resist UV UL94 V-0		
• Environmental Conditions			
Operating altitude / humidity	≤2000m / 5~95%(No condensation)		
Operating Temperature	-30°C~+50°C(below-30°C and above+50°C derating operation)		
Usage Scenarios	Indoor / Outdoor		
• Type			
Charging Mode / Connection Method	Mode 3 / CASE C,CASE B		
Standard Cable Lengths	Type2 / GBT: 5m; Optional(7m)		
• General Specifications			
Screen	4.3"LCD no touch screen(Screen Version)		
Electrical energy accuracy	MIDmeter (Operational Edition)		
Metrological accuracy	CLASS B (Operational Edition)		
Start Mode	APP(Bluetooth)(Home Edition) OCPP(Operational Edition)		
RFID	Standard 1 sheet (Home Edition) Optional (Authentication) (Operational Edition)		
Charging Status Information	LED / APP		
Internet	WIFI (Home Edition) SIM-4G LAN (Optional) (Operational Edition)		
OCPP	OCPP 1.6J (Operational Edition) / OCPP 2.0.1		
Authentication	CE, CB, TUV Mark, RCM		

DC Electric Vehicle Charging Station

Low Power Single Connector



Small Size Fast Charging

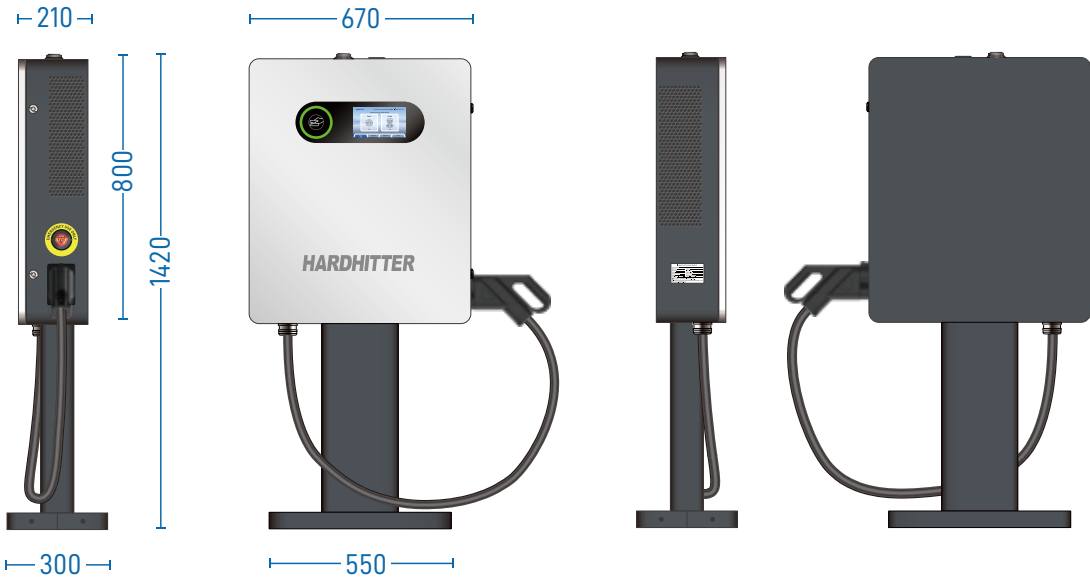
- **Space-Saving Design:** Ideal for constrained installations.
- **Fast Charging:** About 2-hour full charge, and 3-5times faster than AC home charging.

Safe and Reliable

- **Holistic Protection:** Combines active safety, full potting, and IP55 enclosure.
- **Dual Assurance:** Safeguards users and ensures equipment durability.

Easy to Use

- **Interactive:** 7-inch touchscreen with multi-language support.
- **Payment:** Credit card, RFID, and app payments.



Unit: mm

Technical Specifications

DC Output	
Rated Power	20kW / 30kW / 40kW
Output Voltage	DC200~1000V
Output Current	20kW: 66A / 30kW: 100A / 40kW: 125A
Connector Types	CCS2 / GBT / CCS1
Connector line length	5m(optional length)
Efficiency	≥ 95%(load rate ≥ 50%)
AC Output	
Input Voltage	AC400V±15%, 3P+N+PE
Frequency	50Hz / 60Hz
Power Factor	≥ 0.99(Load rate ≥ 50%)
THDi	≤ 5%(Load rate: ≥ 50%)
Environmental Conditions	
Humidity	5%~95%(no condensing)
Altitude	≤ 2000m
Operation Temperature	-30°C~+50°C(below -30°C and above +50°C derating operation)
Mechanical Specifications	
Protection Rating	IP55 / IK10
Approx.weight	About 90kg
General Specifications	
User Interface	LED+7"LCD screen
Start Mode	APP / RFID(Optional)
Communication Interface	Ethernet / 4G(optional) / Wi-Fi(optional)
Communication Protocol	OCPP 1.6J(2.0 optional)
Charging Standards	IEC61851-1: 2017 IEC61851-21-2: 2018 IEC61851-23: 2014 IEC61851-24: 2023
EMC Standards	EMC Class A
Protection	Overcurrent, overvoltage, undervoltage,ground fault including DC leakage protection,surge protection,etc.
Authentication	CE, CB, TUV Mark, RCM

DC Electric Vehicle Charging Station

Low Power Double Connectors



Small Size Fast Charging

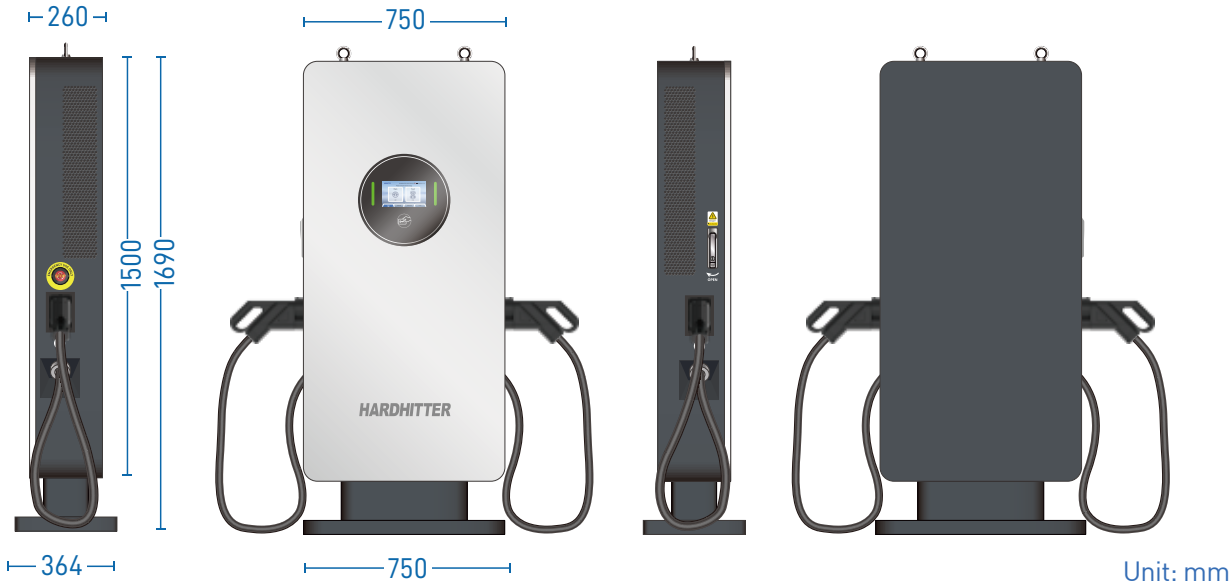
- Compact design for tight spaces.
- Charges in about 1 hour(6-10times faster) than home AC charging.

Safe and Reliable

- **Comprehensive Safety:** Active protection functions ensure personal safety.
- **Robust Design:** Fully potted charging module and an IP55 cabinet ensure reliable, long-term operation.

Easy to Use

- 7-inch Multi-Language Touchscreen for intuitive interaction.
- Flexible Payments via credit card, RFID, app, and more.



Technical Specifications

• DC Output	
Rated Power	60kW / 80kW
Output Voltage	DC200~1000V
Output Current	60kW: 200A / 80kW: 250A
Connector Types	CCS2 / GBT / CCS1
Connector line length	5m(optional length)
Efficiency	≥ 95%(Load rate ≥ 50%)
• AC Output	
Input Voltage	AC400V±15%, 3P+N+PE
Frequency	50Hz / 60Hz
Power Factor	≥ 0.99(load rate ≥ 50%)
THDi	≤ 5%(Load rate: ≥ 50%)
• Environmental Conditions	
Humidity	5%~95%(no condensing)
Altitude	≤ 2000m
Operation Temperature	-30°C~+50°C(below -30°C and above +50°C derating operation)
• Mechanical Specifications	
Protection Rating	IP55 / IK10
Approx.weight	About 185kg (no modules)
• General Specifications	
User Interface	LED+7"LCD screen
Start Mode	APP / RFID(Optional)
Communication Interface	Ethernet / 4G(optional) / Wi-Fi(optional)
Communication Protocol	OCPP 1.6J(2.0 optional)
Charging Standards	IEC61851-1: 2017 IEC61851-21-2: 2018 IEC61851-23: 2014 IEC61851-24: 2023
EMC Standards	EMC Class A
Protection	Overcurrent, overvoltage, undervoltage, ground fault including DC leakage protection, surge protection, etc.
Authentication	Certification in progress

DC Electric Vehicle Charging Station

240kW Double Connectors



Flexible Configuration

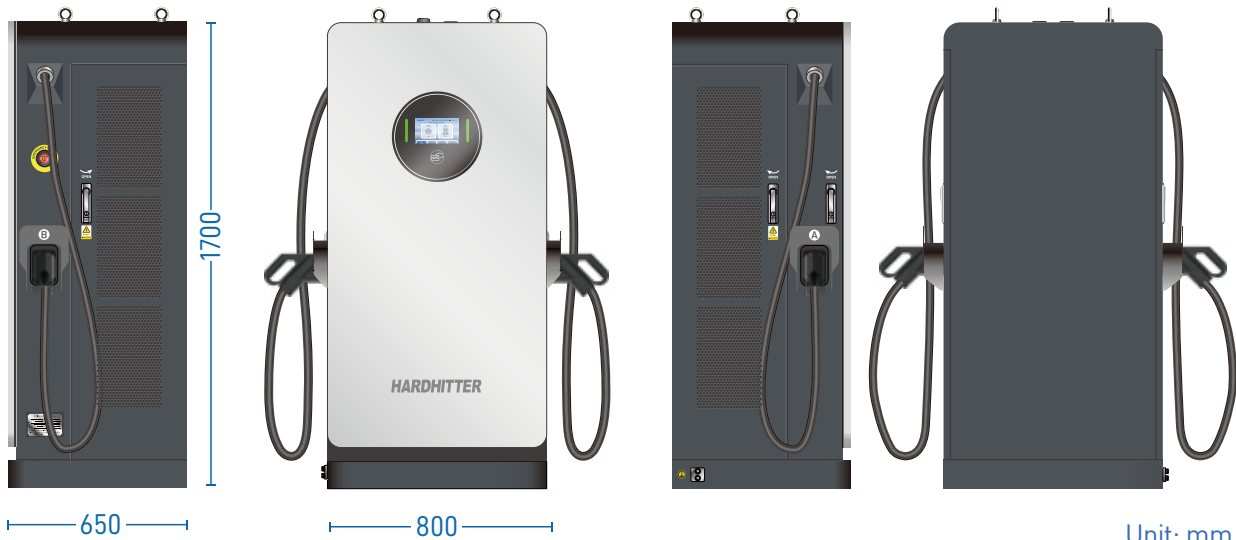
- **Power:** Scalable from 120 to 240 kW by adding modules.
- **Networking:** Multiple configurable options available.

Safe and Reliable

- **Active & Passive Safety:** Active safety functions protect users.
- **Robust Construction:** Fully potted modules and a high-protection cabinet ensure equipment durability.

Easy to Use

- **Intuitive 7-inch Touchscreen:** Multi-language support for ease of use.
- **Ove-friendly operation :** Physical buttons meet touchscreen for effortless charging in any weather.
- **Versatile Payments:** Accepts credit card, RFID, and in-app payments.



Unit: mm

Technical Specifications

• DC Output	
Rated Power	120~240kW
Output Voltage	DC200~1000V
Output current	CCS2 / GBT: 250A(Max300A) CCS1: 250A
Connector types	CCS2 / GBT / CCS1
Connector line length	5m(optional length)
Efficiency	≥ 95%(Load rate ≥ 50%)
• AC Input	
Input Voltage	AC400V±15%, 3P+N+PE
Frequency	50Hz / 60Hz
Power Factor	≥ 0.99(Load rate ≥ 50%)
THDi	≤ 5%(Load rate ≥ 50%)
• Environmental Conditions	
Humidity	5%~95%(no condensing)
Altitude	≤ 2000m
Operation Temperature	-30°C~+50°C(below -30°C and above +50°C derating operation)
• Mechanical Specifications	
Protection Rating	IP55 / IK10
Approx.weight	About 298kg (no modules)
• General Specifications	
User Interface	LED+7"LCD screen
Start Mode	APP / RFID (optional)
Communication Interface	Ethernet / 4G(optional) / Wi-Fi(optional)
Communication Protocol	OCPP 1.6J(2.0 optional)
Charging Standards	IEC61851-1: 2017 IEC61851-21-2: 2018 IEC61851-23: 2014 IEC61851-24: 2023
EMC Standards	EMC Class A
Protection	Overcurrent, overvoltage, undervoltage, ground fault including DC leakage protection, surge protection, etc.
Authentication	CE, CB, TUV Mark, RCM

DC Electric Vehicle Charging Station

240kW Double Connectors(with display screen)



Flexible Configuration

- **Power:** Scalable from 120 to 240 kW by adding modules.
- **Networking:** Multiple configurable options available.

Safe and Reliable

- **Active & Passive Safety:** Active safety functions protect users.
- **Robust Construction:** Fully potted modules and a high-protection cabinet ensure equipment durability.

Easy to Use

- **Intuitive 32-inch Touchscreen:** Multi-language support for ease of use.
- **Versatile Payments:** Accepts credit card, RFID, and in-app payments.



Unit: mm

Technical Specifications

• DC Output	
Rated Power	120~240kW
Output Voltage	DC200~1000V
Output current	CCS2 / GBT: 250A(Max300A) CCS1: 250A
Connector types	CCS2 / GBT / CCS1
Connector line length	5m(optional length)
Efficiency	≥ 95%(Load rate ≥ 50%)
• AC Input	
Input Voltage	AC400V±15%, 3P+N+PE
Frequency	50Hz / 60Hz
Power Factor	≥ 0.99(Load rate ≥ 50%)
THDi	≤ 5%(Load rate ≥ 50%)
• Environmental Conditions	
Humidity	5%~95%(no condensing)
Altitude	≤ 2000m
Operation Temperature	-30°C~+50°C(below -30°C and above +50°C derating operation)
• Mechanical Specifications	
Protection Rating	IP55 / IK10
• General Specifications	
User Interface	LED+32"LCD screen
Start Mode	APP / RFID (optional)
Communication Interface	Ethernet / 4G(optional) / Wi-Fi(optional)
Communication Protocol	OCPP 1.6J(2.0 optional)
Charging Standards	EMC Class A
EMC Standards	IEC61851-1: 2017 IEC61851-21-2: 2018 IEC61851-23: 2014 IEC61851-24: 2023
Protection	Overcurrent, overvoltage, undervoltage, ground fault including DC leakage protection,- surge protection, etc.

DC Electric Vehicle Charging Station

480kW Double Connectors



Flexible Configuration

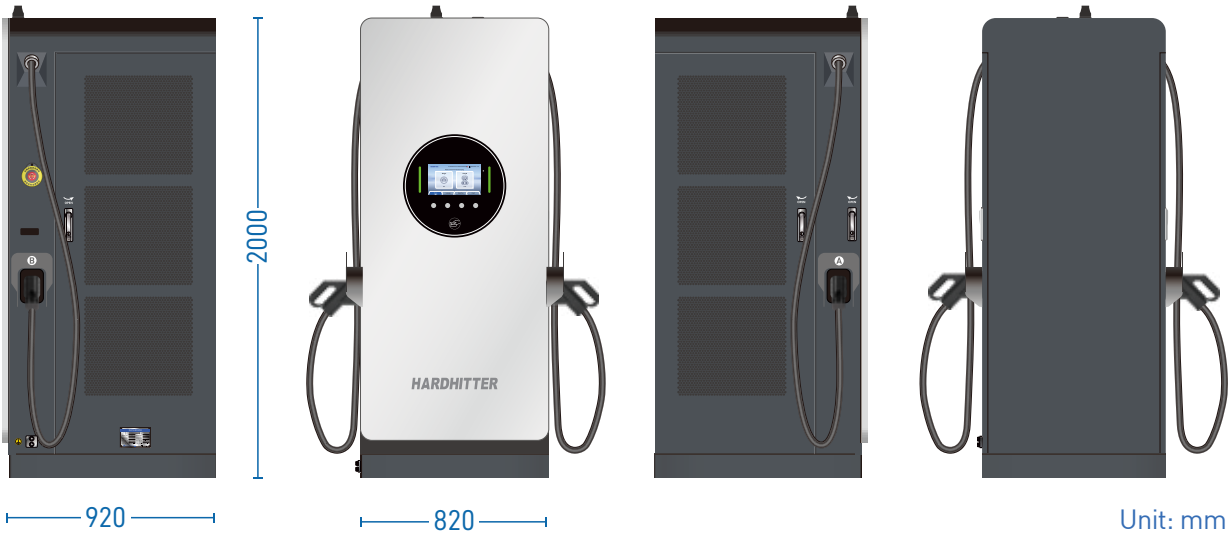
- **Power:** Scalable from 320 to 400 kW by adding modules.
- **Networking:** Multiple configurable options available.

Safe and Reliable

- **Active & Passive Safety:** Active safety functions protect users.
- **Robust Construction:** Fully potted modules and a high-protection cabinet ensure equipment durability.

Easy to Use

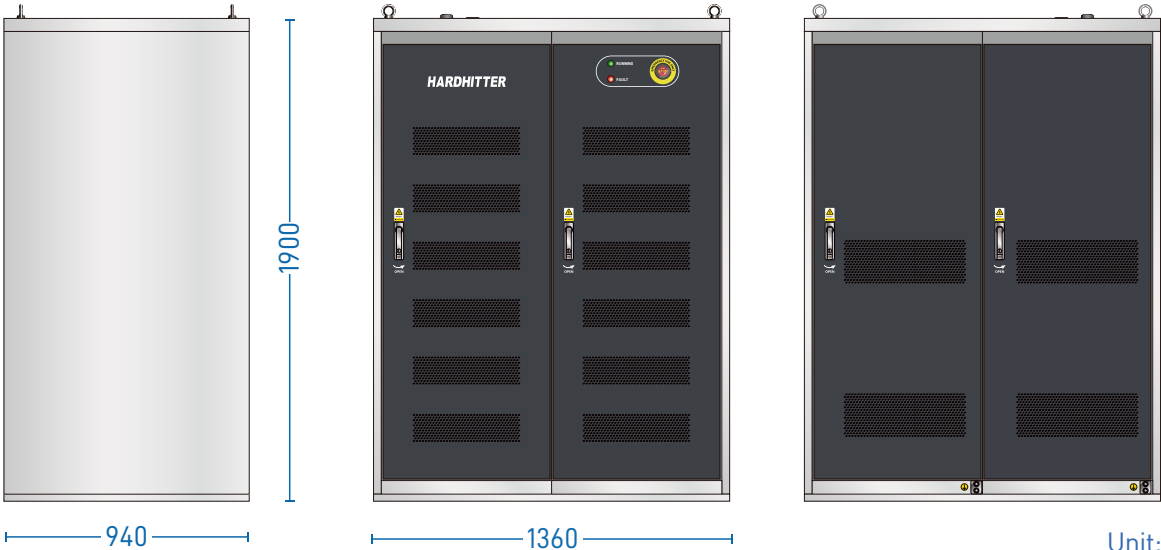
- **Intuitive 10.1-inch Touchscreen:** Multi-language support for ease of use.
- **Versatile Payments:** Accepts credit card, RFID, and in-app payments.



Technical Specifications

• DC Output	
Rated Power	320kW / 400kW / 480kW
Output Voltage	DC150~1000V
Output current	CCS2: 350A / GBT: 400A / CCS1: 250A
Connector types	CCS2 / GBT / CCS1
Connector line length	5m(optional length)
Efficiency	≥95%(load rate≥50%)
• AC Input	
Input Voltage	AC400V±15%, 3P+N+PE
Frequency	50Hz / 60Hz
Power Factor	≥0.99(load rate≥50%)
THDi	≤5%(load rate≥50%)
• Environmental Conditions	
Humidity	5%~95%(no condensing)
Altitude	≤2000m
Operation Temperature	-30°C~+50°C(below -30°C and above +50°C derating operation)
• Mechanical Specifications	
Protection Rating	IP55 / IK10(screen IK08)
• General Specifications	
User Interface	LED + 10.1" LCD screen
Start Mode	APP / RFID(optional)
Communication Interface	Ethernet / 4G(optional) / Wi-Fi(optional)
Communication Protocol	Hardhitter(proprietary protocol) OCPP 1.6J
Charging Standards	EMC Class A
EMC Standards	EN IEC 61851-1: 2019 IEC 61851-21-2: 2021 EN IEC 61851-23: 2014 IEC 61851-24: 2014
Protection	Overcurrent, overvoltage, undervoltage, ground fault including DC leakage protection, integrated surge protection, etc
Authentication	CE, CB, TÜV Mark

DC Electric Vehicle Charging Power Cabinet



Unit: mm

Intelligent Power Scheduling

- **Dynamic Power Allocation:**
Full matrix topology schedules any module to any connector for optimal utilization.
- **Future-Proof Scalability:**
Modular design allows for smooth, cost-effective capacity expansion.

Easy to Use

- **Payment Flexibility:**
Credit card, RFID, and app.

Flexible Configuration

- Power that grows with you, from 240 to 960 kW.
- Configurations that adapt to your needs, across dispenser types.

Safe and Reliable

- **Personnel Safety:**
Active protection functions.
- **Equipment Reliability:**
Fully potted modules and a high-protection enclosure.

Technical Specifications

• DC Output	
Rated Power	240kW~4.8MW
Output Voltage	DC200~1000V
Efficiency	≥ 95%(Load rate0%)
• AC Output	
Input Voltage	AC400V±15%, 3P+N+PE
Frequency	50Hz / 60Hz
Power Factor	≥ 0.99(Load rate ≥ 50/%)
THDi	≤ 5%(Load rate ≥ 50%)
• Environmental Conditions	
Humidity	5%~95%(no condensing)
Altitude	≤ 2000m
Operation Temperature	-30°C~+50°C(below -30°C and above +50°C derating operation)
Protection Level	IP55 / IK10
• General Specifications	
User Interface	LED+7"LCD screen
Communication Interface	Ethernet / 4G / Wi-Fi (Optional)
Communication Protocol	OCPP 1.6J(2.0 optional)
Charging Standards	IEC61851-1: 2017 IEC61851-23: 2014 IEC61851-21-2: 2018 IEC61851-24: 2023
EMC Standards	EMC Class A
Protection	Overcurrent, overvoltage, undervoltage, ground fault including DC leakage protection, integrated surge protection, etc
Authentication	CE, CB, TUV Mark, RCM

DC Electric Vehicle Charging Dispenser

Air-Cooled Dispenser



Flexible Configuration

- Full Matrix Topology:
Dynamically allocates any power module to any charging port for maximum utilization.
- Seamless Scalability:
Modular design allows for easy, cost-effective capacity expansion.

Safe and Reliable

- Personnel & Equipment Protection:
Active safety functions ensure user safety.
- Robust Construction:
Fully potted modules and a high-protection cabinet ensure durability.

Easy to Use

- Simple Interaction:
7-inch multi-language touchscreen.
- Flexible Payment:
Credit card, RFID, and app support.



Unit: mm

Technical Specifications

• DC Output	
Output Voltage	DC200~1000V
Output Current	CCS2 / GBT: 250A(Max300A) CCS1: 250A
Connector Types	CCS2 / GBT / CCS1
Cable Length	5m(optional length)
• Environmental Conditions	
Humidity	5%~95%(no condensing)
Altitude	≤ 2000m
Operation Temperature	-30°C~+50°C(below-30°C and above+50°C derating operation)
Protection Level	IP55 / IK10
• General Specifications	
User Interface	LED+7"LCD screen
Start Mode	APP / RFID(optional)
Communication Interface	Ethernet / 4G / Wi-Fi(Optional)
Communication Protocol	OCPP 1.6J(2.0 optional)
Charging Standards	IEC61851-1: 2017 IEC61851-23: 2014 IEC61851-21-2: 2018 IEC61851-24: 2023
EMC Standards	EMC Class A
Protection	Overcurrent, overvoltage, undervoltage, ground fault including DC leakage protection, integrated surge protection, etc
Authentication	CE, CB, TUV Mark, RCM

DC Electric Vehicle Charging Dispenser

Liquid-cooled Dispenser



Super High Power

- Single connector rated current 500A .
- The maximum charging power is 500kW.

High Protection

- Isolated Compartment Design: Electrical and thermal systems are physically separated.
- Enhanced Protection: Electrical components remain unaffected by external environments.

Low Noise

- Efficient Cooling: High-performance liquid cooling system greatly improves heat dissipation.
- Quiet Operation: Noise levels are kept under 55dB.

High Security

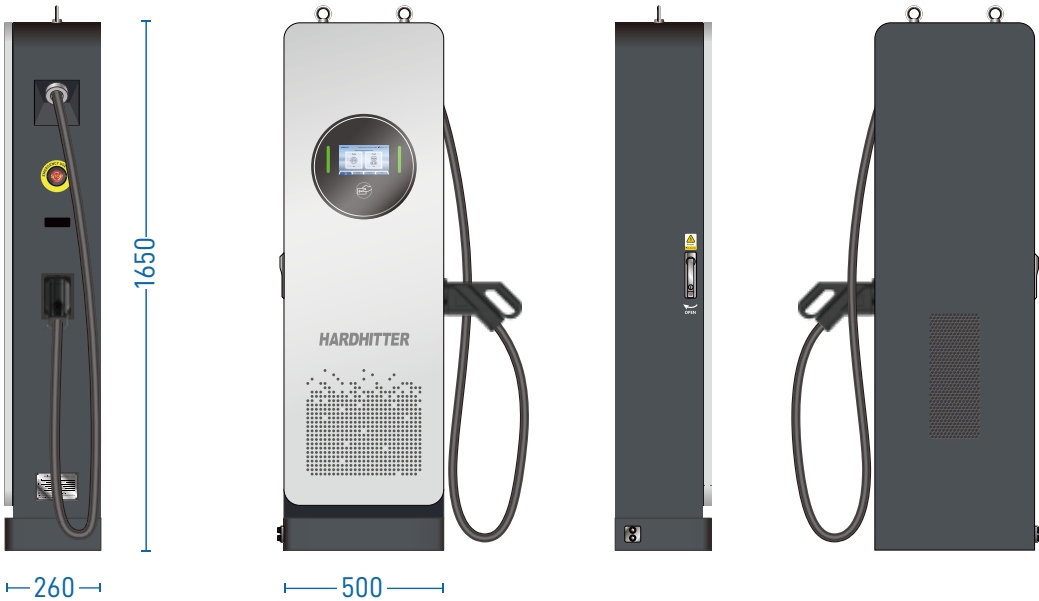
- Dielectric Coolant: Insulating silicone oil serves as the heat dissipation medium.
- Leak-Safe Design: A leak presents no risk of electrical short circuit.

Strong Compatibility

Supports all series of charging hosts (prefabricated, container-type, etc.).

Easy Upgrades

- Future-Proof Upgrade: From fast to super high-power charging.
- Scalable Capacity: Power can be expanded seamlessly to meet growing demand.

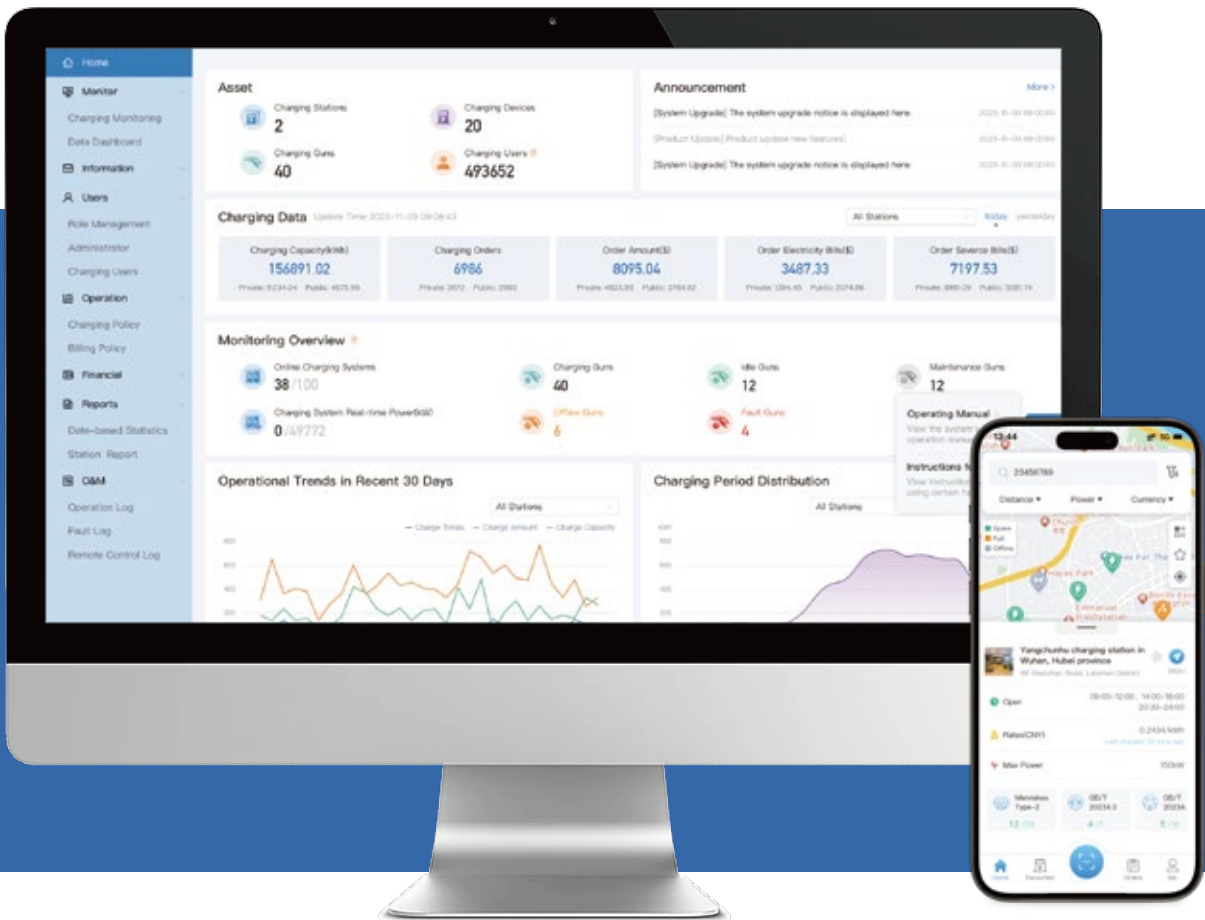


Unit: mm

Technical Specifications

• DC Output	
Output Voltage	DC200~1000V
Output Current	CCS2(Liquid-cooled): Max500A
Connector Types	CCS2(Liquid-cooled)
Connector line length	Max 5m(Optional)
• Environmental Conditions	
Humidity	5%~95%(no condensing)
Altitude	≤ 2000m
Operation Lempérature	-30°C~+50°C(below -30°C and above +50°C derating operation)
• Mechanical Specifications	
Protection Rating	IP55 / IK10
• General Specifications	
User Interface	LED+7"LCD screen
Start Mode	APP / RFID (Optional)
Charging Standards	EMC Class A
EMC Standards	IEC61851-1: 2017 IEC61851-23: 2014 IEC61851-21-2: 2018 IEC61851-24: 2023
Protection	Overcurrent, overvoltage, Over temperature protection,short circuit protection, surge protection, etc.
Authentication	CE, CB, TUV Mark, RCM

Platform Positioning



The Hardhitter Charging Cloud is a charging management platform based on Amazon, which can easily manage and monitor charging stations, chargers, drivers and electric vehicles, as well as data analysis, report generation and financial reconciliation.

When used in conjunction with the app, drivers can locate stations, experience fast charging and enjoy transparent pricing, providing them with a pleasant charging experience while optimizing energy costs.

Main Functions

Data Dashboard
The statistics and analysis of basic data and operational data, providing decision-making support for operators.

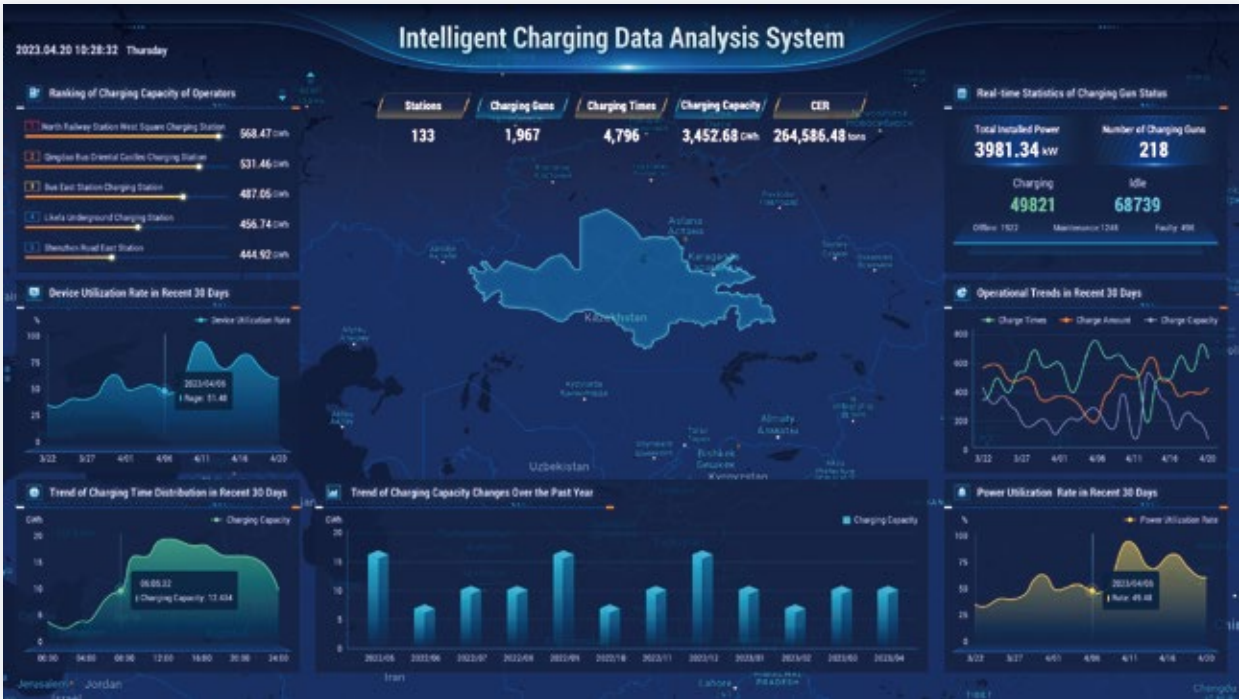
Real-time Monitoring
Multiform display of real-time status, modular customization of parameters, and real-time alarm.

Flexible Billing
Supports flexible billing policies and multiple payment methods.

Convenient Statistics
Various statistical reports for convenient reconciliation, so as to master the operation of the station.

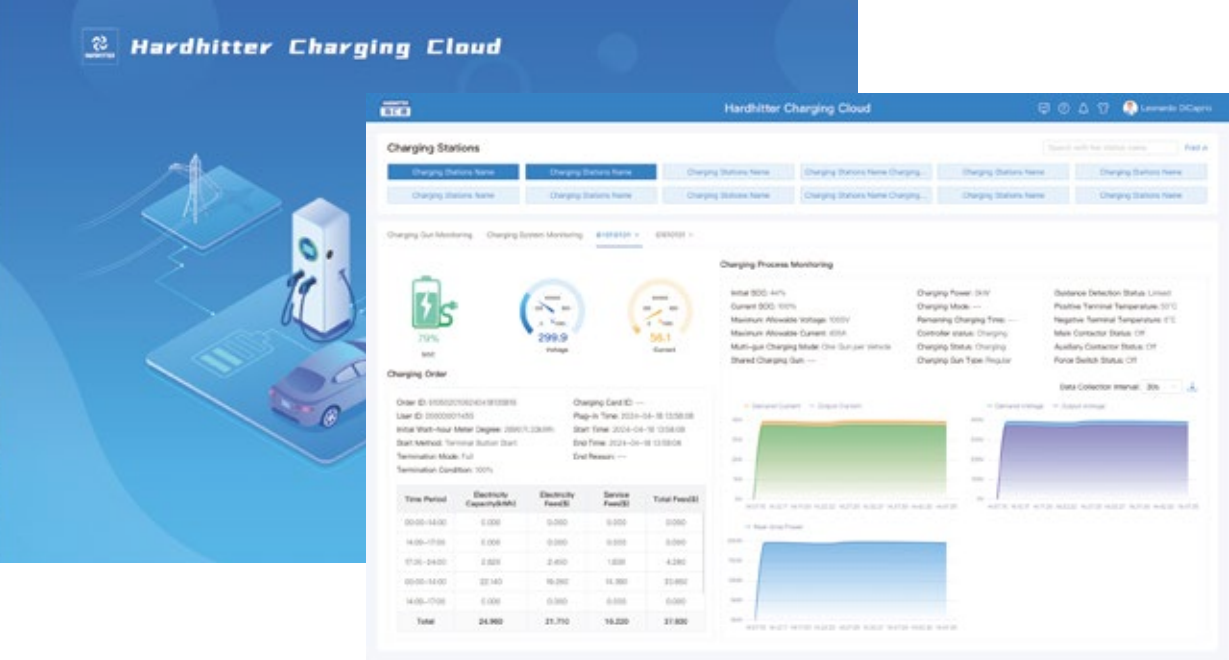
01 Data Dashboard

Operators can view the real-time operational data and operation status of chargers through the independent data dashboard.



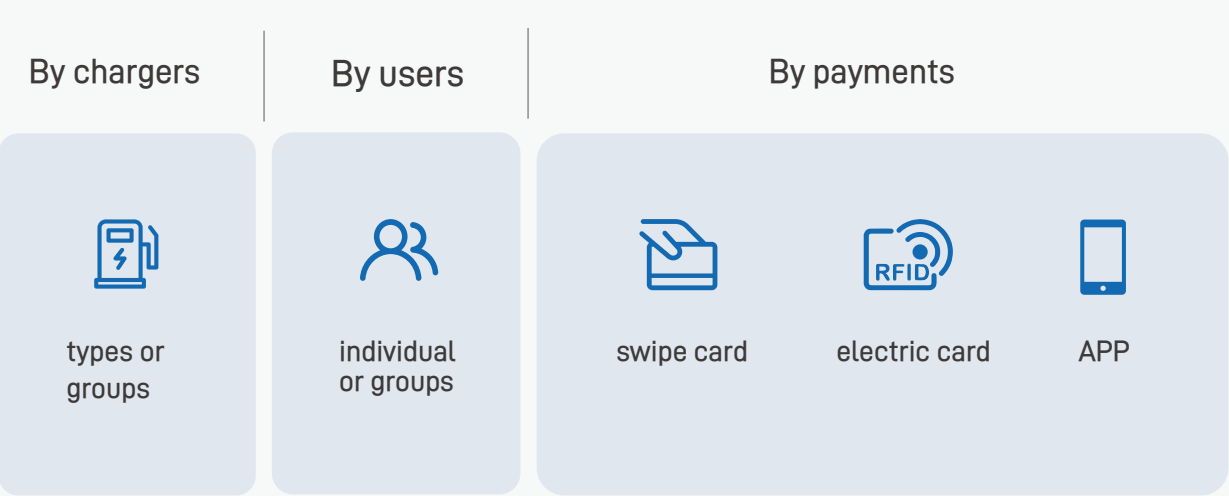
02 Real-time Monitoring

- Monitor the real-time status of chargers and charging guns.
- Monitor the operation status of chargers and provide fault warning.

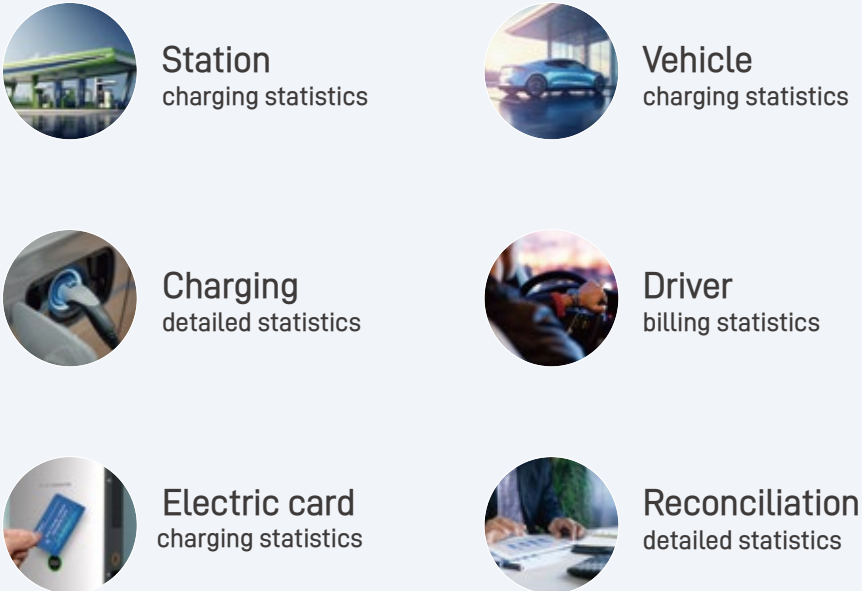


03 Flexible Billing

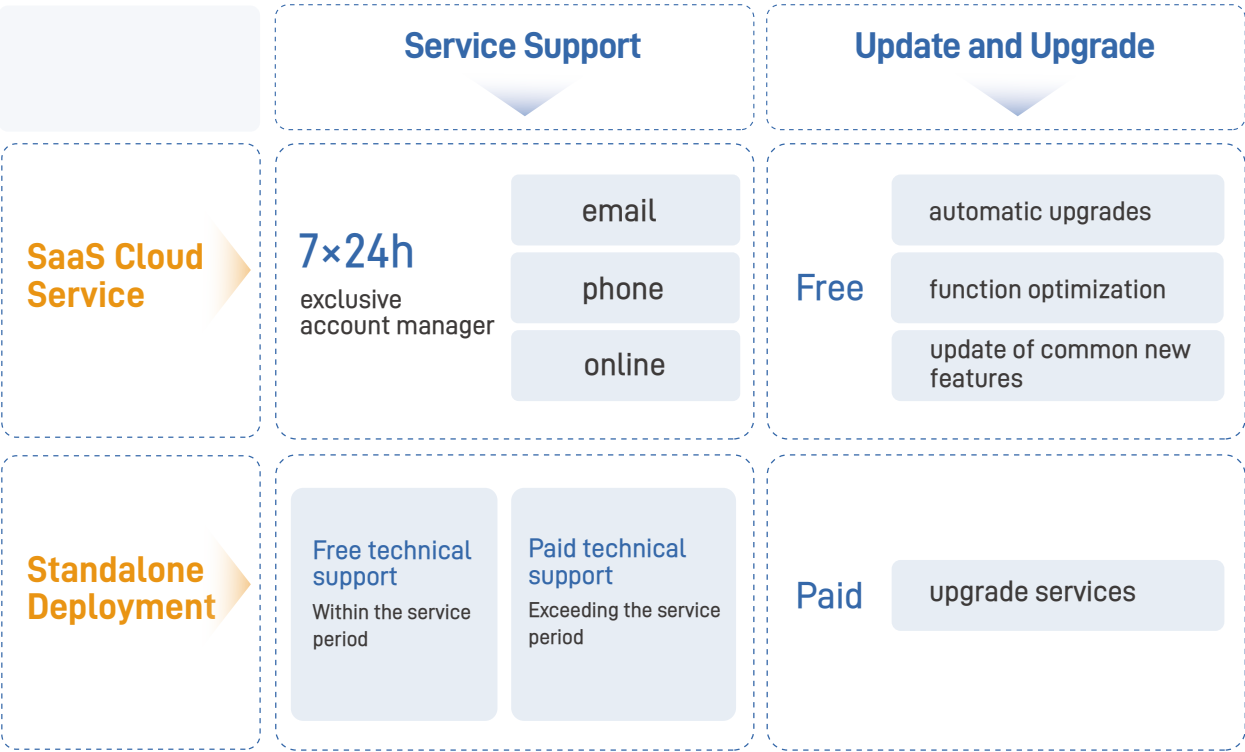
Flexible billing strategies that can charge based on charging capacity, charging duration, and charging time periods, with support for additional fees.



04 Convenient Statistics



Service Support



Heavy / Mining Truck Charging Project

Leader in customized heavy truck and mining truck charging

As the earliest professional manufacturer in the field of mining truck charging in China, Hardhitter continues to lead the mining and heavy truck electrification market with its highly reliable, high-power and intelligent charging solutions, and has created a number of industry benchmark projects:

2019

The first electric mining truck charging and swapping integration project in China.

Yimin Town, Hulunbuir, Inner Mongolia

It is a precedent for the electrification of mining trucks and realizes stable operation in alpine areas.

2022

The world's first 1.8MW triple-gun liquid-cooled ultra-fast charging station

ErDOS, Inner Mongolia

A breakthrough in high-power liquid cooling technology to meet the needs of high-efficiency energy replenishment of heavy trucks.

2021

The world's highest altitude (5200m) charging and swapping station

Yulong Copper Mine, Changdu, Xizang

Stable operation in extreme environments to verify the ultrahigh reliability of the equipment.

2025

World's First 4.5MW Dual-Gun Automatic Charging System

Inner Mongolia

Leading the New Era of High-Power Fully Automatic Charging

Heavy / Mining Truck Charging



▲ In 2019, the first set of electric mining truck charging and battery swapping project in China [Hulunbuir, Inner Mongolia]

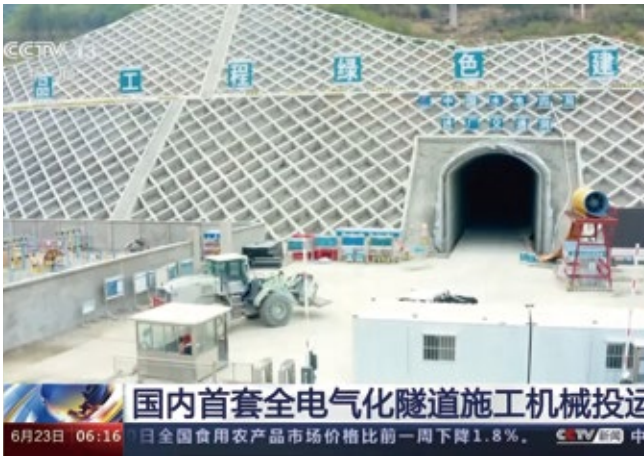


▲ In 2021, World's Highest Altitude (5200m Above Sea Level) Charging and Swapping Project [Changdu, Xizang]



▲ In 2022, the first 1.8MW 3 guns liquid-cooled charging project in China [Ordos, Inner Mongolia]





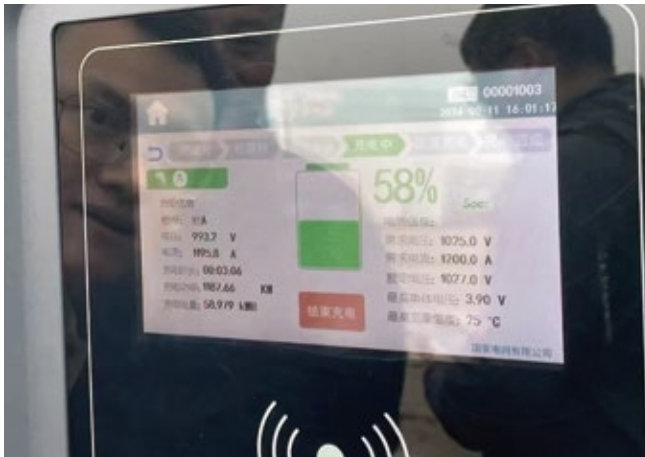
2021 China's first fully electrified tunnel construction vehicle charging project [Yixian, Hebei]



China's first set of stand-alone 4.5MW unmanned mining truck charging project [Hulunbuir, Inner Mongolia]



The first set of single-gun megawatt overcharging project in China (single-gun power 1.2MW) [Ordos, Inner Mongolia]



World's First 4.5MW Dual-Gun Automatic Charging System



The first set of 1.5MW skid-mounted 4-gun liquid-cooled charging project in China [Huolin Gol,]



The first set of single-gun 1500V 1500A mining truck charging project in China [Anshan, Liaoning]



The first pure electric locomotive liquid-cooled supercharging project in China [Jiangxi Xinyu]





Dezhou, Shandong



Jiajiangxian Sichuan



Norway



Australia



Ordos Neimenggu



Jinghe, Xinjiang



Bus Charging Project

Hardhitter charging technology leads the industry change

In 2014, Hardhitter was the first in the world to break through the technical barriers of intelligent power dispatching, based on the innovative full-matrix topology, through intelligent algorithms to achieve millisecond-level accurate matching of charging demand and grid load, and dynamically optimize the power distribution scheme, successfully improving the comprehensive energy efficiency by more than 30%. This revolutionary technology is quickly becoming the core support for the transformation of bus electrification.

We have built a benchmark charging infrastructure that covers the whole country:

- The largest and longest-running bus charging station in China.
- The largest and longest-running smart charging hub in Beijing.
- The largest and longest operating charging station in the Central Plains (Henan).
- The largest and longest-running bus charging station in Shanxi Province.
- The largest bus charging network in Northeast China.



▲ Liaocheng, Shandong

Bus Charging Items



▲ Mishan, Heilongjiang



▲ Hailin, Heilongjiang



▲ Benxi, Liaoning



▲ Inner Mongolia Ulanhot



▲ Jixi, Heilongjiang



Beijing



Dali, Yunnan



Shangqiu, Henan



Wenshan, Yunnan



Zigong, Sichuan



Aksu, Xinjiang



Neijiang, Sichuan



Heshui, Gansu



Xingyi, Guizhou

Urban Fast Charging Project

Empower regional operators to create the value of the charging ecosystem

With "product, platform, service" as the core, Hardhitter provides full-stack solutions for urban fast charging operators to help users:

- **Quickly build autonomous operational capabilities**

From site selection and site construction to intelligent O&M, the whole process is empowered

- **Build regional competitiveness**

Enhance regional competitiveness by improving the profitability of individual stations through differentiated services and efficient management.

- **Realize the value of network synergy**

Cross-regional resource aggregation to amplify large-scale effects and business imagination space



Shijiazhuang, Hebei



Xichang Sichuan



Zhong County, Chongqing



Qingdao, Shandong



▲ Anji, Zhejiang



▲ Neijiang, Sichuan



▲ Panzhihua, Sichuan



▲ Shenyang, Liaoning



▲ Suizhou, Hubei



▲ Zigong, Sichuan



▲ Chenzhou, Hunan



▲ Zigong, Sichuan



▲ Meishan, Sichuan



▲ Xuzhou, Jiangsu



▲ Harbin, Heilongjiang



▲ Qingdao, Shandong



⬆ Nepal



⬆ Indonesia



⬆ Ukraine



⬆ Kyrgyzstan



⬆ Brazil



⬆ Lithuania



⬆ Indonesia



⬆ Thailand



⬆ Italy



⬆ Turkey



⬆ Turkey

Fast Charging



⬆ Heshan, Guangdong



⬆ Yangquan, Shanxi



⬆ Dongyang, Zhejiang



⬆ Yuncheng, Shanxi



Photovoltaic Storage and Charging Station Project



⬆ Fuling, Chongqing



⬆ Changzhi, Shanxi



⬆ Huzhou, Zhejiang





Mohe, Heilongjiang



Mohe, Heilongjiang



Mohe, Heilongjiang



Liaoning State Grid



Suzhou State Grid



Hunan State Grid



Jibei State Grid



Shanghai State Grid