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**Full-scenario
Charging Solution Provider**



EVI Catalog - US

Shenzhen EVI New Energy Technology Co., Ltd.

www.evinewenergy.com

2026

Vision

Contribute to a Sustainable Earth



Mission

By integrating EV charging, solar power, and energy storage, we deliver innovative, reliable, and efficient energy solutions that empower a greener and smarter future worldwide.

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Company Profile



EVI NEW ENERGY TECHNOLOGY

Full-scenario charging solution provider

Outstanding team background	Shenzhen EVI New Energy Technology Co., Ltd. was founded by a core technical team and founders from renowned domestic and international enterprises, including Huawei, ABB, Eaton Electric, Emerson Network Power and other fortune 500 companies. EVI New Energy Technology brings together industry veterans with years of in-depth experience in the solar PV, ESS and EV charger sector across key areas such as product R&D, manufacturing, marketing, operations management, and customer service, providing a solid foundation for the company’s innovation and growth.
Extensive product experience	Our core team has led the development of numerous industry-leading products, including: These products have fully met the diversified needs of both domestic and international markets for photovoltaic inverters and charging solutions. At the same time, our team’s involvement in the formulation of new energy product standards and protocol development has resulted in extensive expertise, enabling efficient transformation from R&D to commercial application.
Comprehensive technical system	Our technical team has deep expertise in areas including power electronics, embedded software, structural and thermal management, and cloud platform development. We are committed to ongoing technological innovation, staying at the forefront of global new energy technology trends to continuously deliver efficient, intelligent, and safe solutions to our clients.
Excellent project management	In terms of project management and company operations, our founders and management team possess deep professional insight and outstanding execution capabilities. Through rigorous project management processes and highly efficient collaboration mechanisms, we ensure every project is delivered on time and to the highest quality standards, continuously creating greater value for our customers.
Integrated energy management solutions	We are dedicated to providing customers with full-scenario charging solutions, empowering the transformation and upgrading of the clean energy industry, and supporting the achievement of carbon neutrality goals. We firmly believe that, through our professional team, efficient services, and outstanding innovation capabilities, we can work together with global partners to create a greener future!

1ST

Telecom power rectifier, HUAWEI
Residential string PV inverter, HUAWEI
Global 9395P UPS, Eaton Electric
Global bi-directional V2G 11KW EV
Charger(CHAdemo), ABB
High power charger (GBJ), ABB

20⁺Years

Industry Experience

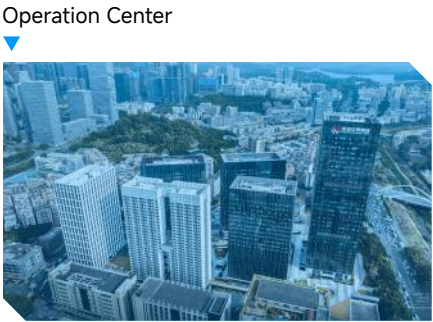
80%

of employees are in R&D

500

Global Fortune

All key positions are come from



Core Competences

ADVANTAGES



Market Insight

Global vision to accurately grasp the market and product direction
500 strong platform resources to grasp first-hand information in a timely manner.



R&D Capacity

Established Fortune 500 mature development team to reduce the teething period.

All-round, all-discipline engineers with many years of development experience to ensure product quality and progress.

Fortune 500 standard development process to ensure product quality and progress.



Global Standard Interpretation

Our understanding of European and American standards is more than half a year ahead of our friends.

Referring to the standard development, more than one year ahead of friends.



Market Expansion

Mature channel system to ensure product sales
Mature market strategy, help rapid and effective market expansion.

Wide circle of friends, helping to quickly occupy the market.



Supply Chains

Famous listed companies in the industry join us to help product quality.

Emerson, ABB, and Huawei's circle of friends to expand the new energy ecosystem.



Product Definition

Years of R&D and marketing experience, precise understanding of the actual needs of customers.

Accurate product definition, half a step ahead of friends, to grasp the first market opportunities.



After-sales Service

Service sinking installers and channel dealers to improve service quality and response speed, and enhance customer satisfaction.

Multi-country and multi-language after-sales service to increase customer stickiness.

Global Footprint



Patents & Certifications



ISO 9001

Quality Management System Certification

Certificate No.: 258248QR0619R0S



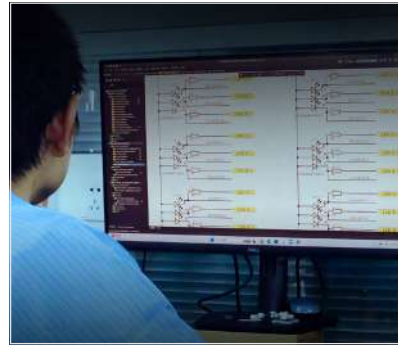
System Lab



Leveraging the R&D characteristics of the EV charging industry, EVI has established a high-standard system testing laboratory, equipped with industry-leading testing and verification equipment, and has formed a highly skilled and experienced testing team. This enables comprehensive testing and validation of EV charging products.

Currently, EVI has built four major laboratory testing systems, covering materials testing, performance testing, safety and reliability testing, and system testing. These laboratories support the entire process from R&D design to manufacturing and application of charging stations.

This well-established testing platform fully meets the company's diverse product testing needs, effectively ensuring high product quality, safety, and reliability, and providing a solid quality assurance for customers and the market.



Manufacturing Base

ISO9001

Quality Certification System

3600 Units

Annual Capacity of DC EV Charger

4000 m²

Factory Area

72000 Units

Annual Capacity of AC EV Charger



One-Stop Professional Service



Diverse Customer Support

We offer round-the-clock online customer service, hotline support, email assistance, and (in-progress) local technical support to ensure customers can easily access help whenever they need it.



Expert Pre-Sales Consultation

We thoroughly understand each customer's needs and application environments, providing tailored technical and project consultation services.



Customized Solutions

Our professional technical team delivers installation and commissioning guidance, remote diagnostics, and maintenance advice. We design bespoke solutions for different projects and application scenarios.



High-Quality Delivery

A dedicated project team coordinates every stage, including production, shipping, installation, and commissioning, to ensure the smooth and orderly progression of your project.



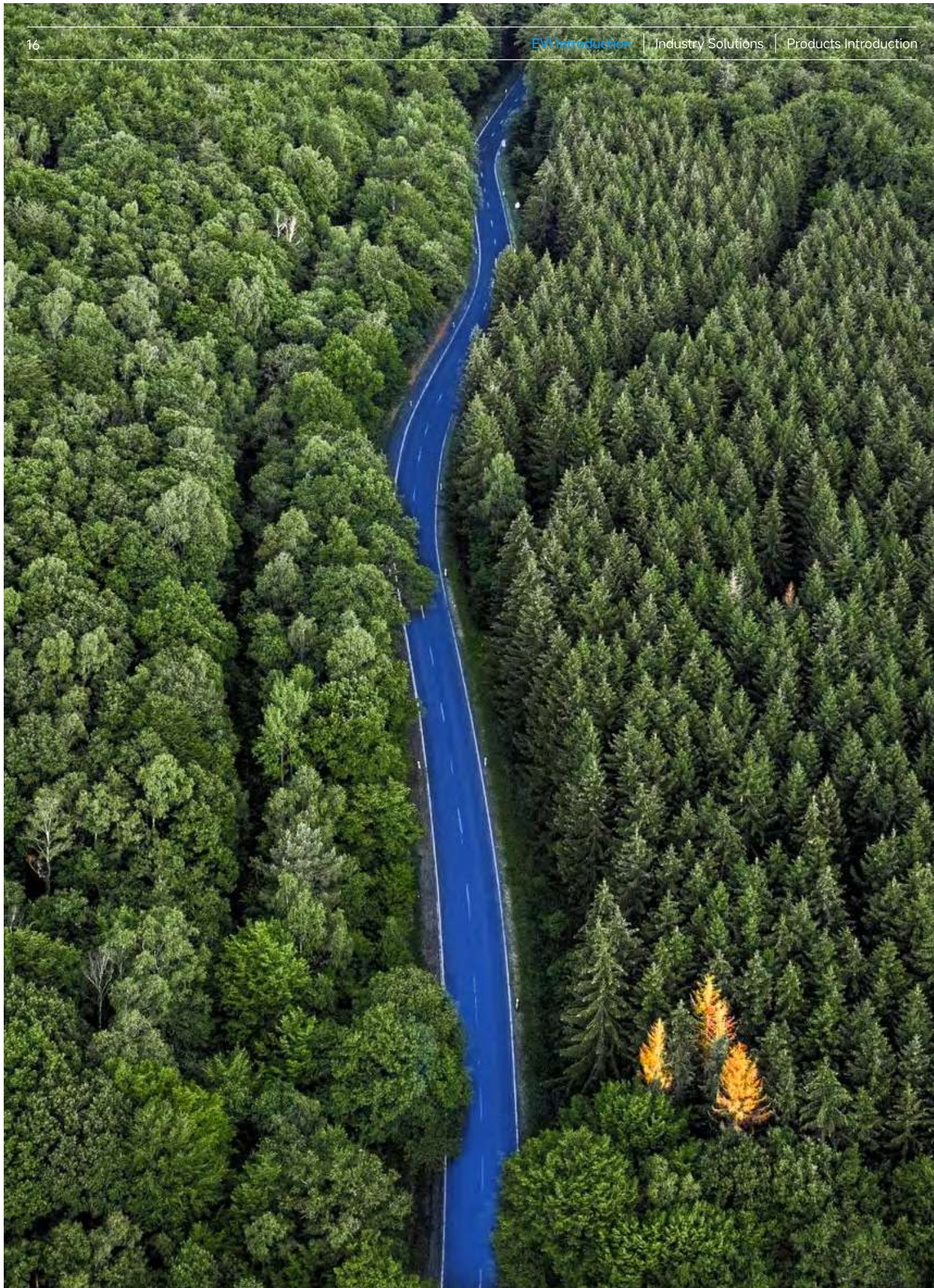
Continuous After-Sales Service

Throughout equipment operation, we provide regular inspections and preventive maintenance, support software upgrades, and enable remote monitoring to guarantee efficient and stable performance.



Spare Parts and Logistics Assurance

We have established a comprehensive spare parts supply system to minimize delivery times, increase maintenance efficiency, and reduce the risk of equipment downtime.



Sustainable Development Strategy

Strategic Development

Always adhere to a sustainable development strategy, deeply integrating it with business growth to form a long-term competitive advantage.

Promote the development of green products and services through technological innovation, achieving resource conservation, efficient energy use, waste reduction and reuse, and improving resource utilization efficiency.

Talent Development

Emphasize employee training and career development to enhance employees' awareness of environmental protection and social responsibility.

Promote diversity in gender, culture, and background to create an inclusive corporate culture that attracts and retains top talent.

Sustainable Supply Chain

Strengthen environmental and social responsibility requirements for suppliers to achieve green upgrades across the entire supply chain.

Prioritize raw materials and suppliers that meet sustainability standards, promoting the green transformation of the global value chain.

Green Production

Give priority to the procurement of green raw materials, adopt environmentally friendly processes, and optimize production flows to reduce pollutant emissions.

Social Responsibility

Actively respond to international and national sustainable development initiatives and fulfill corporate citizenship responsibilities.

Engage in active communication with employees, customers, communities, and governments to address concerns and achieve mutual benefit and win-win outcomes.



EVI Solutions Overview

1

Smart
Destination(inc.home)
Energy
Management
Solution



2

Smart
Public
Energy
Management
Solution



3

Fleet, transport
and logistics
Energy
Management
Solution

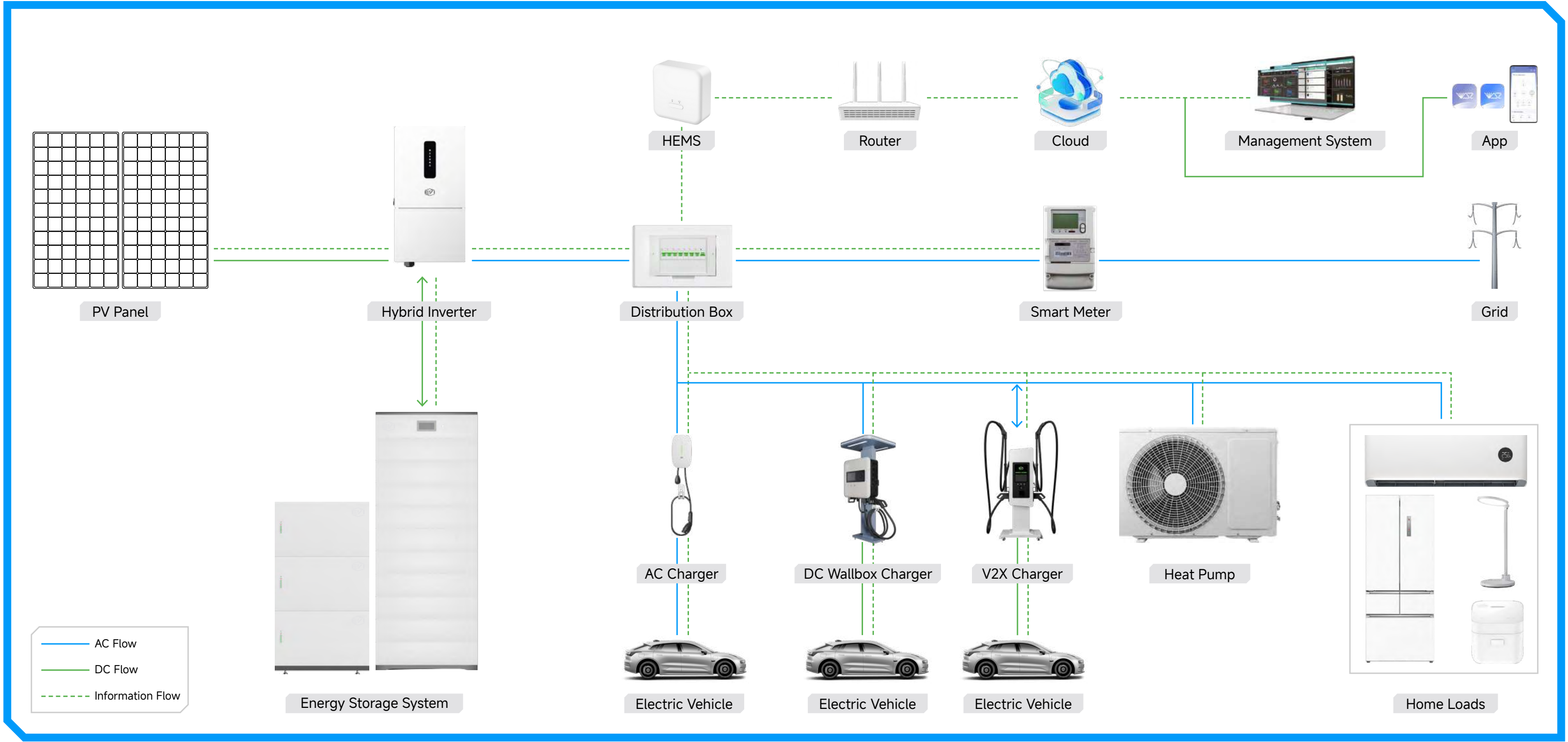
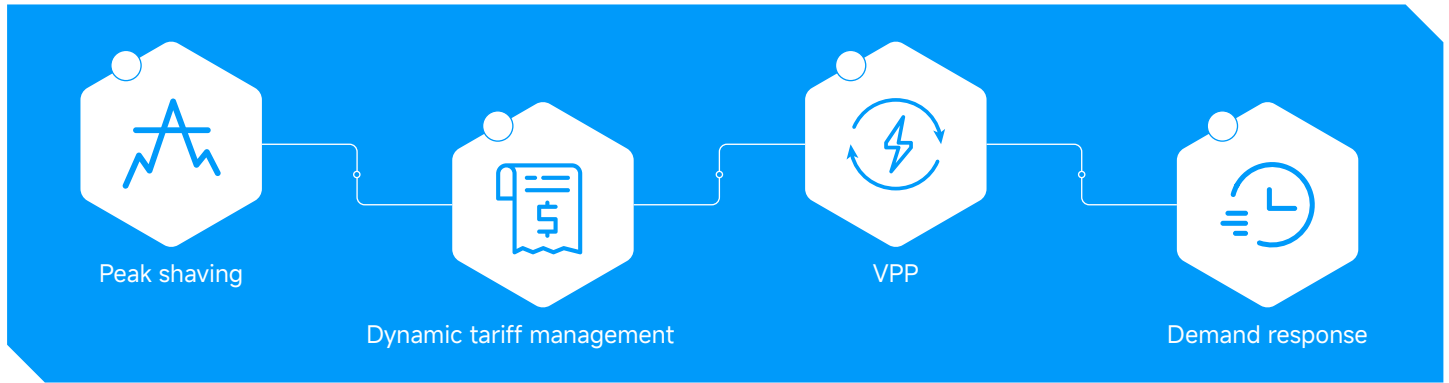


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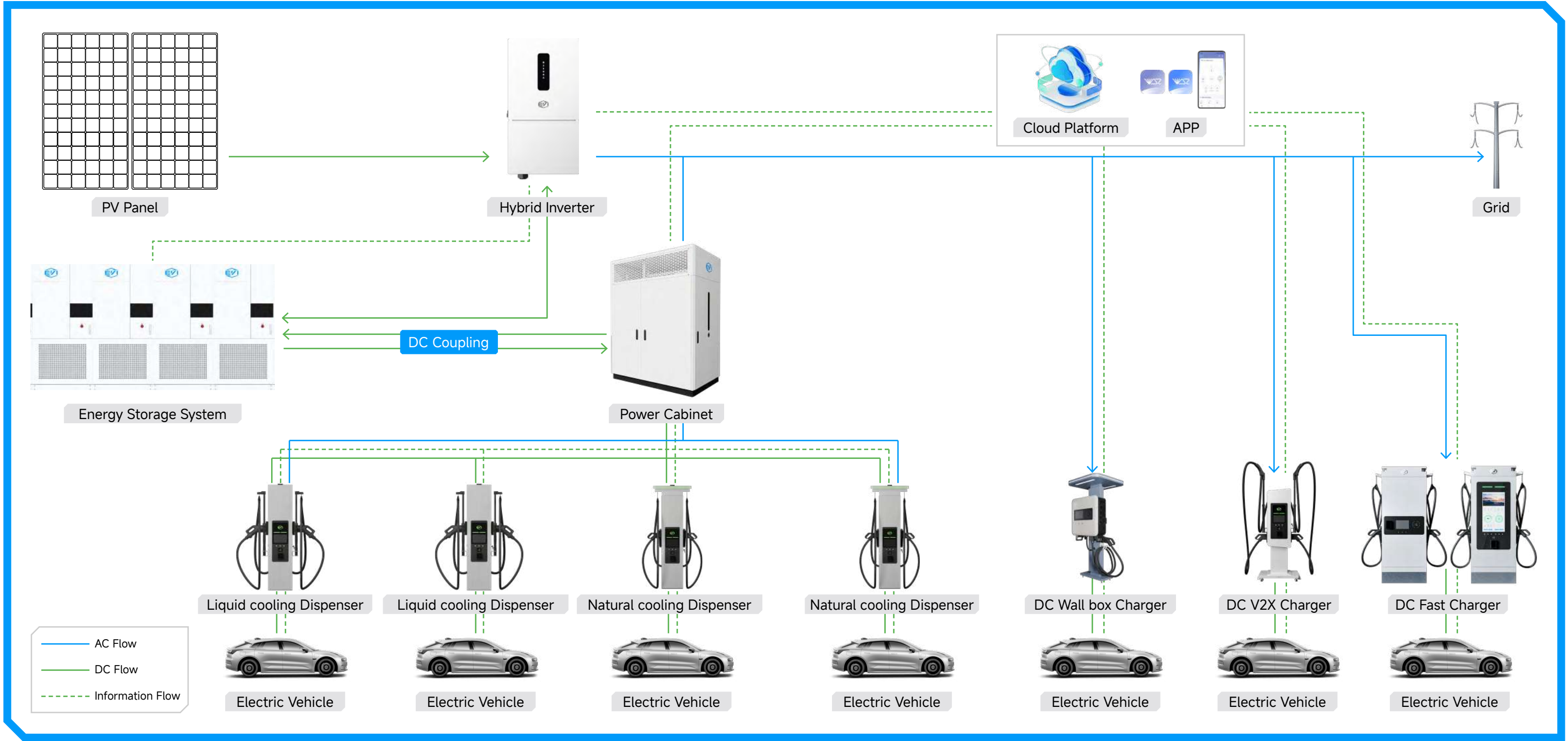
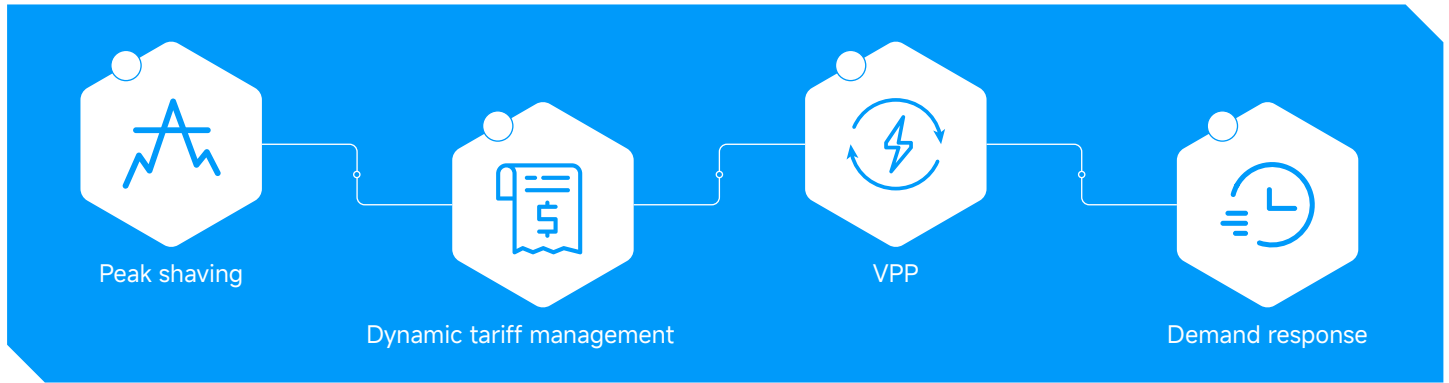
Cloud
Platform
Solution



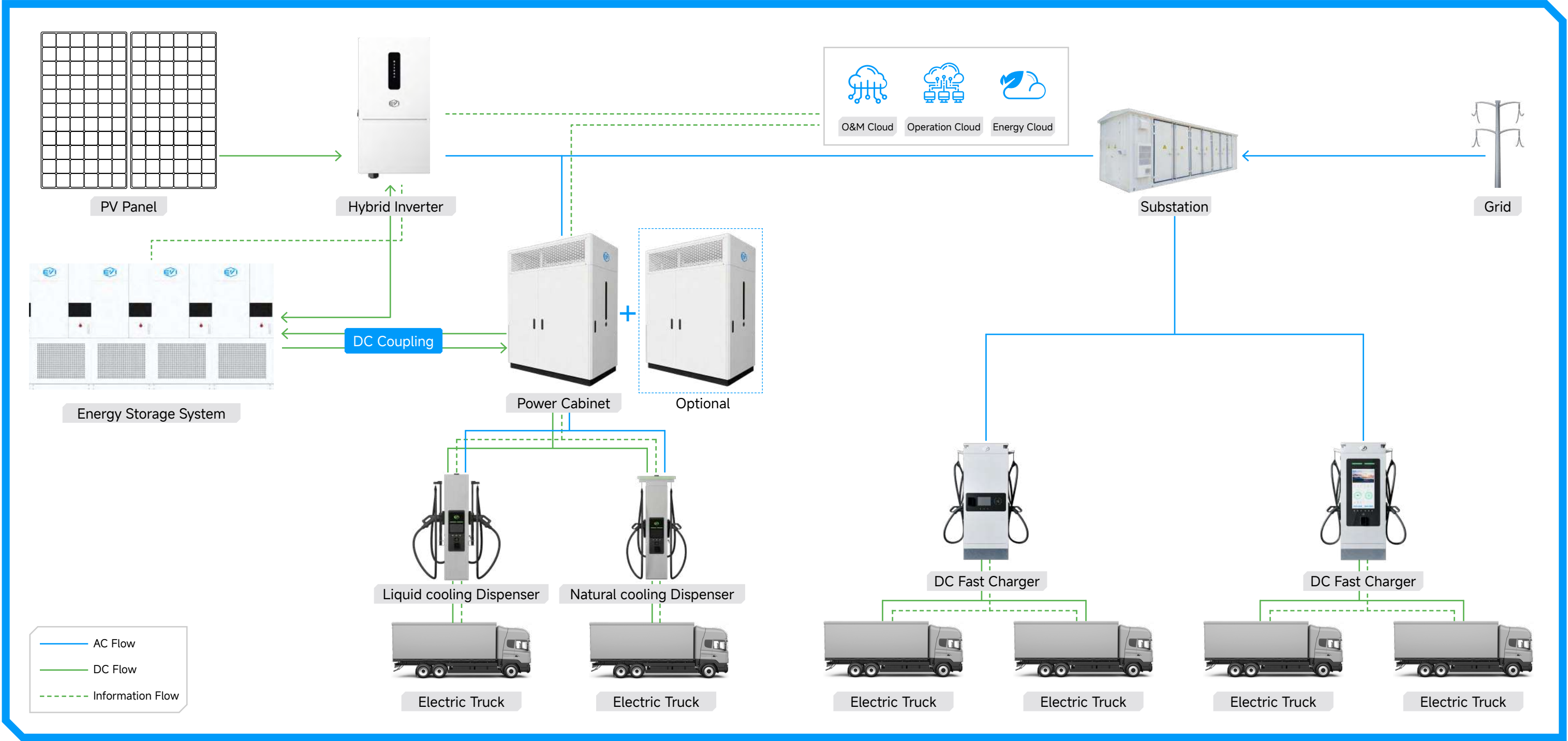
Smart Destination(inc.home) Energy Management Solution



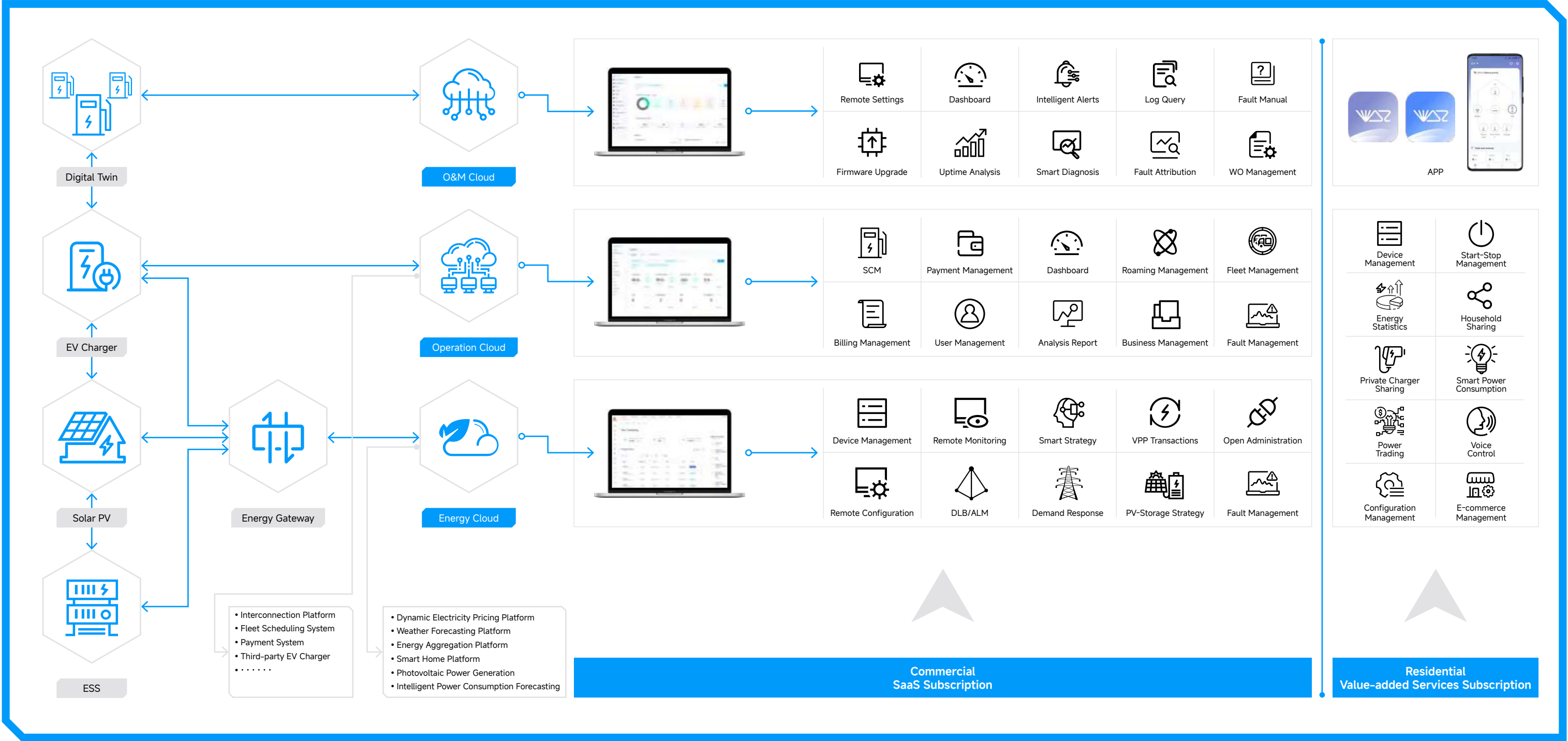
Smart Public Energy Management Solution



Fleet, transport and logistics Energy Management Solution



Cloud Platform Solution





9.6/12kW AC EV Charger Series for Residential Scenarios

Appearance



Features

Flexible Options

Wall-mount / pole-mount
Hardwired / NEMA plug
4 enclosure colors
Multiple charging modes

Environmental Friendly

Certified by Energy Star
Eco-friendly enclosure materials

High Reliability

Anti-welding protection
NEMA 4 dustproof and waterproof design
CCID 20 leakage current protection
UL listed and CSA certified

Smart Operation

Multi communications:
Wi-Fi / Bluetooth / Ethernet
Scheduled charging

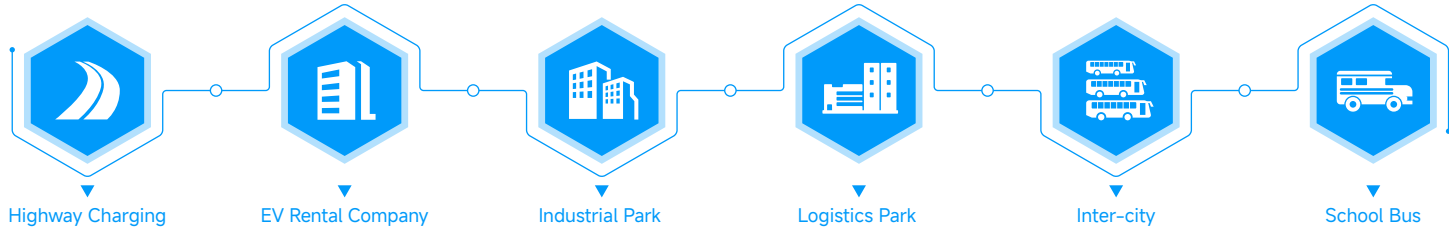
Specification

	EVAC1-9K6-C-US	EVAC1-12K-C-US
Electrical Specification		
Grid Connection	L1+L2+G	
Rated Voltage	240V AC	
Maximum Current	40A	50A
Rated Frequency	60Hz	
Maximum Power	9.6kW	12kW
Basic Attributes		
Wiring Type	NEMA 14-50P	Hardwired
Charging Connector	SAE 1772 (Type 1)	
Cable Length	7m (23 feet) / 7.5m (25 feet)	
Enclosure	PC943	
Color	White Front Cover: PANTONE RAL 9003 Back Cover: PANTONE White C Black (PANTONE Black C)	Space Gray Front Cover: PANTONE 10452 C Back Cover: PANTONE Coolgray 9C
Installation	Wall-mounted / Pedestal-mounting (Optional)	
Interactive Interface		
LED Indicator	Green / Yellow / Red	
RFID Reader	Mifare ISO / IEC 14443 A	
Start Mode	Plug to Charge / RFID Card / App	
Communication		
Wi-Fi & Bluetooth & Ethernet	Standard	
OCPP	OCPP 1.6 Json	
Safety		
Leakage Current Protection	CCID 20	
Enclosure Rating	NEMA 4	
Impact Protection	IK08	
Electrical Protection	Over current protection, Residual current protection, Surge protection, Over / Under voltage protection, Over temperature protection	
Certification	UL / FCC / Energy Star	CSA / FCC / Energy Star
Certification Standards	UL2594 UL2231-1 UL2231-2 FCC Part 15B	
Warranty	2 Years	
Working Environment		
Operating Temperature Range	-30°C ~ +50°C	
Relative Humidity	5% ~ 95%	
Operating Altitude	≤ 2000m	
Package		
Dimension(W × H × D)	192 × 344 × 101mm	
Net Weight	6kg	6kg
Gross Weight	8kg	7kg
External Package	Carton	



30kW Wall Box DC EV Charger for Residential Scenarios

Scenarios



Features

Intelligent & Efficient

- Up to 96% efficiency
- Smart charging and full configuration
- Smart load management
- ISO15118 PnC
- Smart authentication, plug&charge/RFID card/App management

Secure & Reliable

- EMC Class A
- Segregated ventilation
- Type 4X protection
- Build in RCD(Optional)
- Rich hardware and software protection



Flexible & Convenient

- Wide output range(150 ~ 1000Vdc)
- Wi-Fi, 4G, Bluetooth, GPS, Ethernet, RS485, RS232 connectivity
- Easy-to-install and commissioning
- Scheduled charging at anytime and anywhere
- Remote diagnosis & OTA

Attractive & Durable

- 10.1" high resolution touch screen and IK10 design
- Stylish and elegant design
- >8 years design life

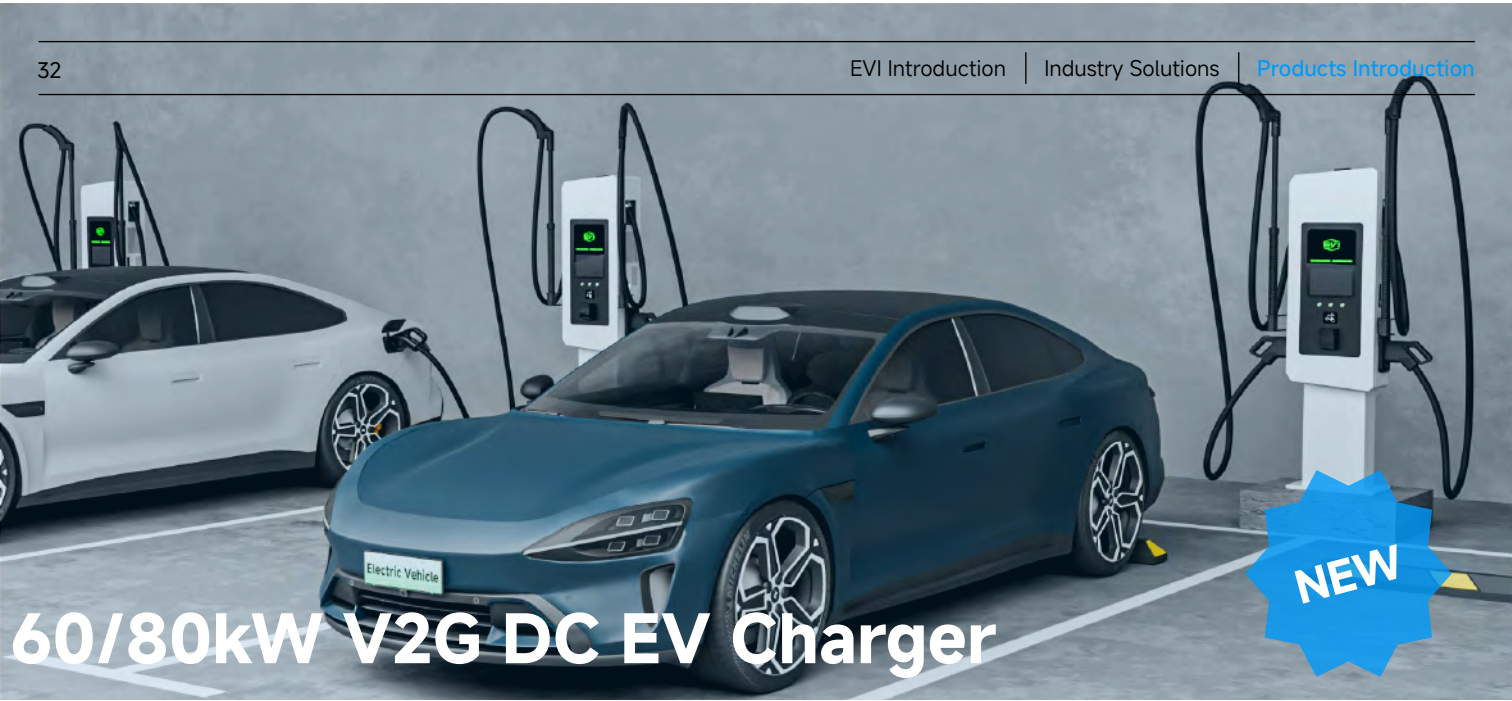
Appearance



Specification

Input	
Grid Connection	
Voltage Range	
Rated Frequency	
Power Factor	
Maximum Input Current	
Output	
Rated Value	
Rated Power	
Voltage Range	
Current Range	
System	
Maximum Efficiency	
Charging Connector	
Cable Length	
RFID Reader	
Authorization Mode	
Communication	
Display	
Protocol	
Safety	
Ingress Protection Rating	
Impact Protection	
Protection	
Certification	
Certification Standards	
Warranty	
Environment	
Installation	
Operating Temperature Range	
Relative Humidity	
Operating Altitude	
Cooling	
Dimensions(W*H*D)	
Net Weight	
Gross Weight	

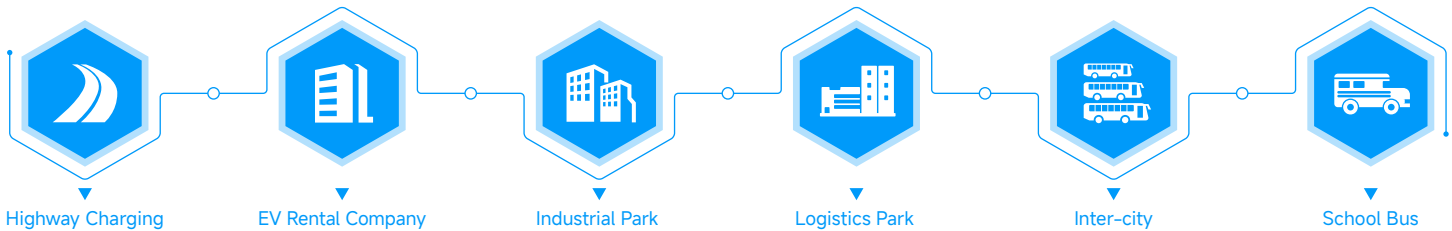
EVDC1-30K-C-US	
3W+N+PE, 3W+PE	
480Vac ± 10%	
60Hz	
≥ 0.99 (Rated Load)	
50A	
1000V / 30A	
30kW	
150Vdc ~ 1000Vdc	
0 ~ 100A	
>96%	
CCS1	
5.5m	
ISO 14443A / ISO 14443B	
Plug & Charge / RFID card / App	
Wi-Fi 2.4GHz/5GHz 802.11a/b/g/n, Bluetooth 5.2, 4G, FE 100Mbps, RS485, RS232	
10.1" high resolution touch screen, IK10	
OCPP 1.6J, OCPP2.0.X (Optional)	
Type 4X	
IK10	
Over current protection, Ground protection, Surge protection, Over/Under voltage protection, Over/Under frequency protection, Over temperature protection, Relay Welding Detection, Residual current protection(Optional)	
UL, Energy Star, FCC	
UL2202, FCC Part 15, Class B CSA C22.2 No.107.1, UL9741, UL1741	
2 years	
Wall-mounted / Pedestal-mounting / Movable cart (Optional)	
-35°C ~ 50°C (>50°C derating)	
5% ~ 95% RH	
<2000m	
Forced Air Cooling	
672*682*229mm	
≈ 65kg	
≈ 85kg	



Appearance



Scenarios



Features

Intelligent & Efficient

60/80KW with V2G bidirectional functions
200A (continuous mode) and 250A(boos mode) for each cnnector
95.5% (3rd party power module) and >97% (EVI own power module)
MID/PTB metering
Built-in energy management system for peak shaving , dynamic tariff and energy arbitration

Flexible & Convenient

Pedestal / Wallbox / Mobile version optional
21.5 inch touch screen with advertisement
Build in cable management system
OCPP 1.6 and OCPP2.1
Easy-to-install and commissioning
Scheduled charging at anytime and anywhere
Remote diagnosis & OTA

Secure & Reliable

Segregated ventilation
55dBA (Standard) and 45dBA(silence mode)
IP55 & IK10 protection
Rich hardware and software protection
Long life design
ISO 15118-2/3/-20, DIN70121,61851-23 and EN18031(cybersecurity)

Specification

	EVVX1-60K-C-US		EVVX1-80K-C-US	
Charging Mode				
Rated Input voltage	480Vac -30%/+10%, 3L+N+PE			
Max.Input current range	111A		148A	
Input frequency range	50/60Hz			
Power factor	≥ 0.99 at rated power output			
Max. Output Power	60/80 KW			
Output voltage range	200~1000Vdc			
Output current range	0-200A		0-250A	
Efficiency(max)	First step: Third party PM: Efficiency = 95.5% Second step: EVI PM: Efficiency ≥ 97%			
Discharging Mode				
Rated Input voltage	400/800 Vdc			
Input voltage range	200~1000 Vdc			
Max. Output Power	60/80 kVA			
Output voltage range	480Vac -30%/+10% 3L+N+PE			
Output power factor	0.8 leading to 0.8 lagging			
Safety				
RCD	Type A			
Ingress Protection Rating	Cabinet IP65, Screen IK10			
Grounding Protection	Class I			
Protection	AC: Over/Under Voltage Protection, Over/Under Frequency Protection; Busbar: Over/Under Voltage Protection DC: Over/Under Voltage Protection, Over Temperature Protection, Output overload & short circuit protection, PME protection, Insulation Detection			
General Information				
Display	21.5" touch screen and buttons			
RFID	ISO 14443A+B to part 4			
Meter	MID/PTB option			
Cable/Connector	5m (7.5 optional) cable with CCS1 connector			
Communication	Wi-Fi 2.4GHz/5GHz, 4G, Bluetooth, WAN, LAN, RS485, CAN			
Noise	<55dB(A) at 1m; Silence mode, <45dB(A), 30°C , 50%~75% load.			
Operating Temperature Range	-30°C - 55°C (Rated input/output voltage) 50 - 55°C output power derating based on test			
Storage Temperature Range	-40°C - 85°C			
Relative Humidity	0 - 95% Condensing			
Cooling	Forced Air Cooling			
Operating Altitude	Altitude ≤ 2000m (No derating); 2000<Altitude ≤ 3000m (the load should derating)			
Overvoltage Level	III			
Installation	Wall-mounted / Pedestal-mounting / Mobile			
Design Life	10 Years			
Warranty	2 years			
Dimension (W*H*D)	530*1178*276mm			
Weight	≤ 120kg		≤ 115kg	

60 – 240kW ^{NEW}

DC Fast Charger(Standard)



97.2%

Peak Efficiency
(PM)

10.1"

Full HD LCD Touch Screen
with IK08 Impact Protection

Max. **400A**

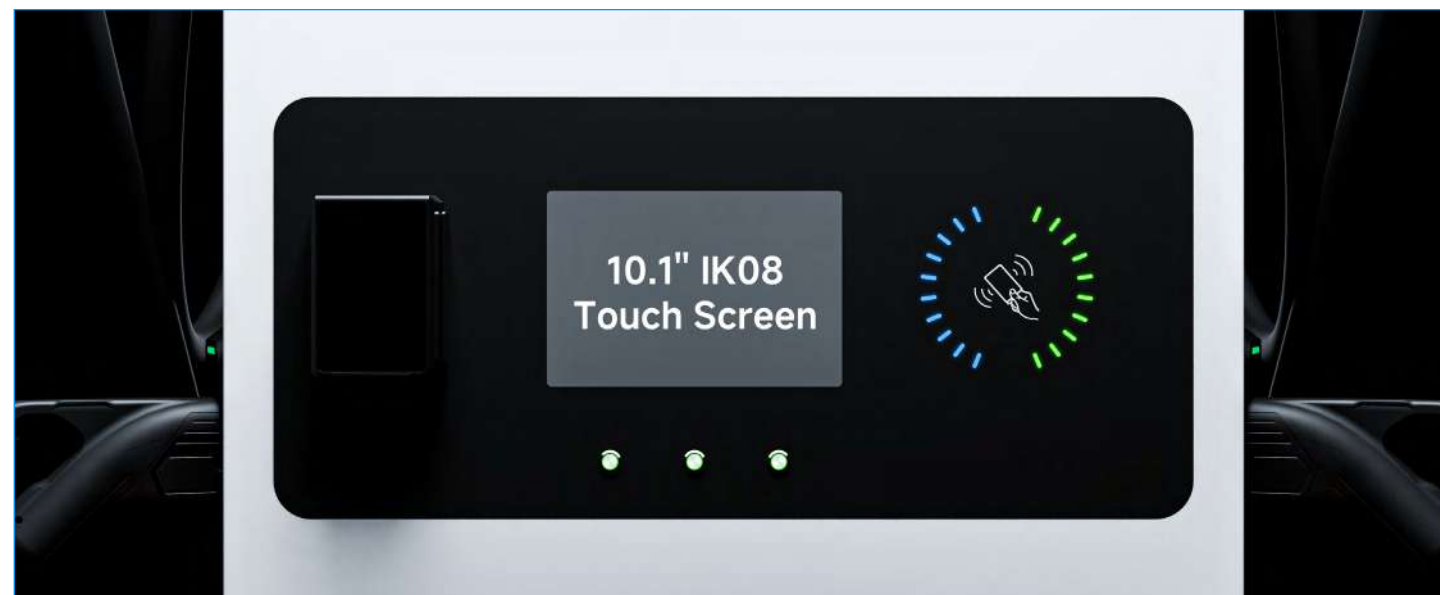
Output current
per connector

Features

Built in Cable Management System

Easy Cable(5/7.5/10m) handing

97.2%
Peak Efficiency(PM)



Disabled Friendly

Height of
operation area
meets the needs
of the disabled



IK08 Screen Protection

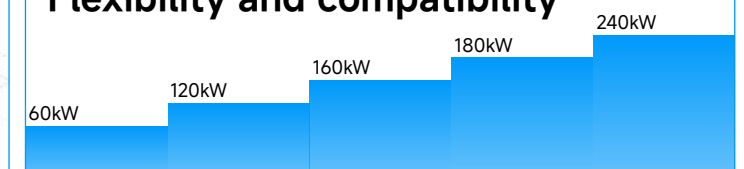


IP54 Protection

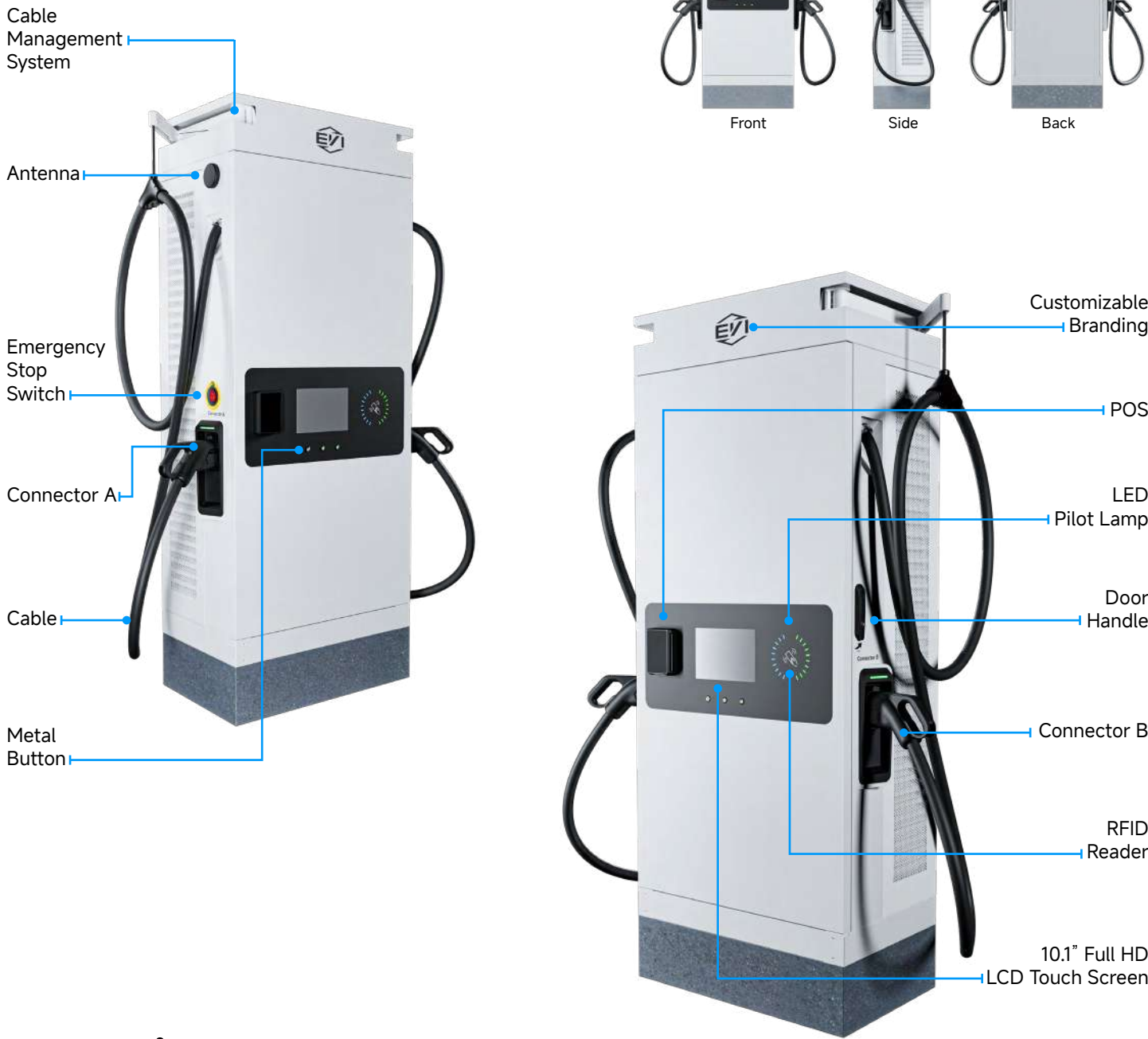
IP55 Optional



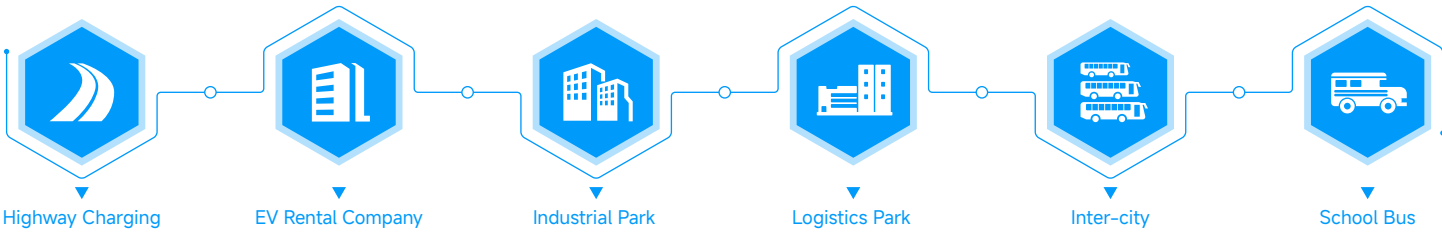
60-240kW Flexibility and compatibility



Appearance



Scenarios



Specification

	EVDC2-60K-11-US-12F	EVDC2-120K-11-US-12F	EVDC2-160K-11-US-12F	EVDC2-180K-11-US-12F	EVDC2-200K-11-US-12F	EVDC2-240K-11-US-12F
Input						
Voltage Range	480Vac +15%/-30%					
Miximum Current	107.4A	214.9A	286.5A	322.3A	358A	429.7A
Rated Frequency	50/60Hz					
Power Factor	>0.99					
Output						
Voltage Range	200 ~ 1000 Vdc					
Voltage Range in Constant Power Mode	300 ~ 1000 Vdc					
Cable Rate Current	250A	250A/400A	250A/400A	250A/400A	250A/400A	250A/400A
Maximum Output of a Single Connector	200A	400A	400A	400A	400A	400A
System						
Peak Efficiency (PM)	97.2%					
Power Module	40kW					
Ripple Coefficient	<0.5					
Current Sharing Coefficient	<5%					
Stabilized Voltage Precision	<0.5%					
Stabilized Current Precision	<1%					
THDi	≤ 5%					
Protocol	OCPP 1.6, OCPP2.0.X (Pending)					
Design Lifetime	10 Years					
MTBF	≥ 50,000h					
Customer Interface						
Display	Type: 10.1" HD true color anti-glare LCD; Operating Temperature Range: -35~70℃ Brightness: >1000 nits; Contrast: 1000:1; Interface: Capacitive touch screen					
Type of Connector	CCS1 / NACS					
Maximum Number of Connectors	2					
Connector Communication Mode	In accordance with DIN 70121 and ISO 15118 standard					
Cable Length	5m (7.5m Optional)					
Safety						
Optimized Power Module for Better Integration	Customized charging mode to prevent the mis operation of human factor					
Interlock	Between 2 charging connectors					
Interface Safety Protection	Circuit discharge function, Insulation monitoring device (IMD), Battery reverse connection protection					
Ingress Protection Rating	IP54 (IP55 Optional)					
Impact Protection	IK08(Screen)					
Protection	Short circuit protection, Over/under voltage protection, Voltage/current limitation protection, Overheat protection, SPD, Plug temperature monitoring function, Circuit contactor adhesion protection					
Emergency Stop	Disconnect the charger and EV to prevent emergency incidents					
Certification Standards	UL2202, UL2231, IEC 61851, IEC 62196, DIN 70121, ISO 15118					
Warranty	2 Years					
Environment						
Installation	Floor Standing					
Noise	≤ 65dB (Silent Mode)					
Operating Temperature Range	-30℃ ~ 50℃					
Relative Humidity	5% ~ 95% (No condensation)					
Cooling	Intelligent Air-cooling					
Operating Altitude	2000m (Derate from 2000m to 3000m)					
Dimensions(W*H*D)	800*1880*500mm (Including cable management system, Connectors not included)					
Net Weight	≈ 240kg	≈ 280kg	≈ 280kg	≈ 310kg	≈ 310kg	≈ 316kg
Gross Weight	≈ 280kg	≈ 320kg	≈ 320kg	≈ 350kg	≈ 350kg	≈ 356kg

97.2%Peak Efficiency
(PM)**32"**Full HD LCD Touch Screen
with advertisementMax. **400A**Output current
per connector

60 - 240kW ^{NEW}

DC Fast Charger(Pro)

Features

32"Full HD Touch Sreen
with advertisementType
32" HD true color anti-glare LCDOperating Temperature Range
-20~70°CBrightness
>1500 nitsContrast
1200:1Interface
Capacitive touch screen**97.2%**
Peak Efficiency(PM)**Disabled
Friendly**Height of
operation area
meets the needs
of the disabled**Built in Cable Management System**

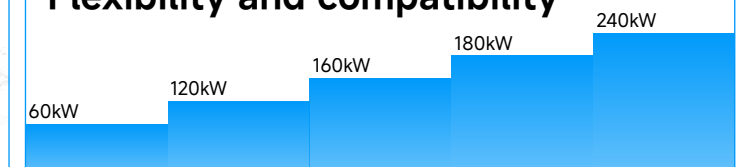
Easy Cable(5/7.5/10m) handing

**IK08**

Screen Protection

**IP54
Protection**

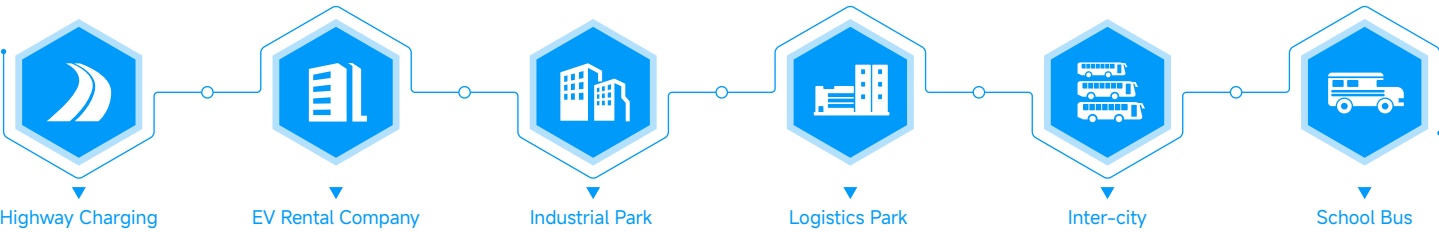
IP55 Optional

**60-240kW**
Flexibility and compatibility

Appearance



Scenarios



Specification

	EVDC2-60K-11-US-33F	EVDC2-120K-11-US-33F	EVDC2-160K-11-US-33F	EVDC2-180K-11-US-33F	EVDC2-200K-11-US-33F	EVDC2-240K-11-US-33F
Input						
Voltage Range	480Vac +15%/-30%					
Mixumum Current	107.4A	214.9A	286.5A	322.3A	358A	429.7A
Rated Frequency	50/60Hz					
Power Factor	>0.99					
Output						
Voltage Range	200 ~ 1000 Vdc					
Voltage Range in Constant Power Mode	300 ~ 1000 Vdc					
Cable Rate Current	250A	250A/400A	250A/400A	250A/400A	250A/400A	250A/400A
Maximum Output of a Single Connector	200A	400A	400A	400A	400A	400A
System						
Peak Efficiency (PM)	97.2%					
Power Module	40kW					
Ripple Coefficient	<0.5					
Current Sharing Coefficient	<5%					
Stabilized Voltage Precision	<0.5%					
Stabilized Current Precision	<1%					
THDi	≤ 5%					
Protocol	OCPP 1.6, OCPP2.0.X (Pending)					
Design Lifetime	10 Years					
MTBF	≥ 50,000h					
Customer Interface						
Display	Type: 32" HD true color anti-glare LCD; Operating Temperature Range: -35~70°C Brightness: >1000 nits; Contrast: 1000:1; Interface: Capacitive touch screen					
Type of Connector	CCS1 / NACS					
Maximum Number of Connectors	2					
Connector Communication Mode	In accordance with DIN 70121 and ISO 15118 standard					
Cable Length	5m (7.5m Optional)					
Safety						
Optimized Power Module for Better Integration	Customized charging mode to prevent the mis operation of human factor					
Interlock	Between 2 charging connectors					
Interface Safety Protection	Circuit discharge function, Insulation monitoring device (IMD), Battery reverse connection protection					
Ingress Protection Rating	IP54 (IP55 Optional)					
Impact Protection	IK08(Screen)					
Protection	Short circuit protection, Over/under voltage protection, Voltage/current limitation protection, Overheat protection, SPD, Plug temperature monitoring function, Circuit contactor adhesion protection					
Emergency Stop	Disconnect the charger and EV to prevent emergency incidents					
Certification Standards	UL2202, UL2231, IEC 61851, IEC 62196, DIN 70121, ISO 15118					
Warranty	2 Years					
Environment						
Installation	Floor Standing					
Noise	≤ 65dB (Silent Mode)					
Operating Temperature Range	-30°C ~ 50°C					
Relative Humidity	5% ~ 95% (No condensation)					
Cooling	Intelligent Air-cooling					
Operating Altitude	2000m (Derate from 2000m to 3000m)					
Dimensions(W*H*D)	800*1880*500mm (Including cable management system, Connectors not included)					
Net Weight	≈ 240kg	≈ 280kg	≈ 280kg	≈ 310kg	≈ 310kg	≈ 316kg
Gross Weight	≈ 280kg	≈ 320kg	≈ 320kg	≈ 350kg	≈ 350kg	≈ 356kg

≥ 96%

System
Efficiency

Max. 720kW

Single power cabinet
compatible 720/600/480kW

Max. 12 Outputs

Max. 2 liquid cooling and 10
natural cooling dispensers



MCS

Full Liquid High Power Charger

Features

Ultimate User Experience

The charging experience is as quick as refueling
Charging in 10 minutes, 500km range

Low noise, no disturbance
Noise level ≤ 55dB, Silent mode available

Easy to handle, good experience
Compact and lightweight, The wire diameter is only 31mm

No queue anxiety
Whitelist, Remote reservation available

Multiple authorization modes
APP, mini-programs, screens, buttons, etc.

Automatic charging
Place an order, then automatically charged

Intelligent & Efficient

High Efficiency
System efficiency ≥ 96%, Highest level in the industry

Intelligent operation and maintenance
Intelligent remote diagnosis, Remote upgrade, unattended

High online rate
System online rate ≥ 98.5%

Intelligent microgrid
Built-in EMS function smarter, Intelligent microgrid

Smart Charging
Support orderly charging, vehicle-to-grid interaction, etc

Dual AC inputs
Supports two different transformer feed inputs

Flexible & Convenient

Strong adaptability to various charging stations
Power cabinet compatible 720/600/480kW

Diverse choice
Maximum 2 liquid cooling and 10 natural cooling dispensers

Small Footprint
Split design, compact and lightweight

Flexible charging
Intelligent matrix allocation, Improve parking space and power grid utilization

Microgrid
Can connect solar and BESS and multiple distributed energy, V2G Ready*

Secure & Reliable

High performance

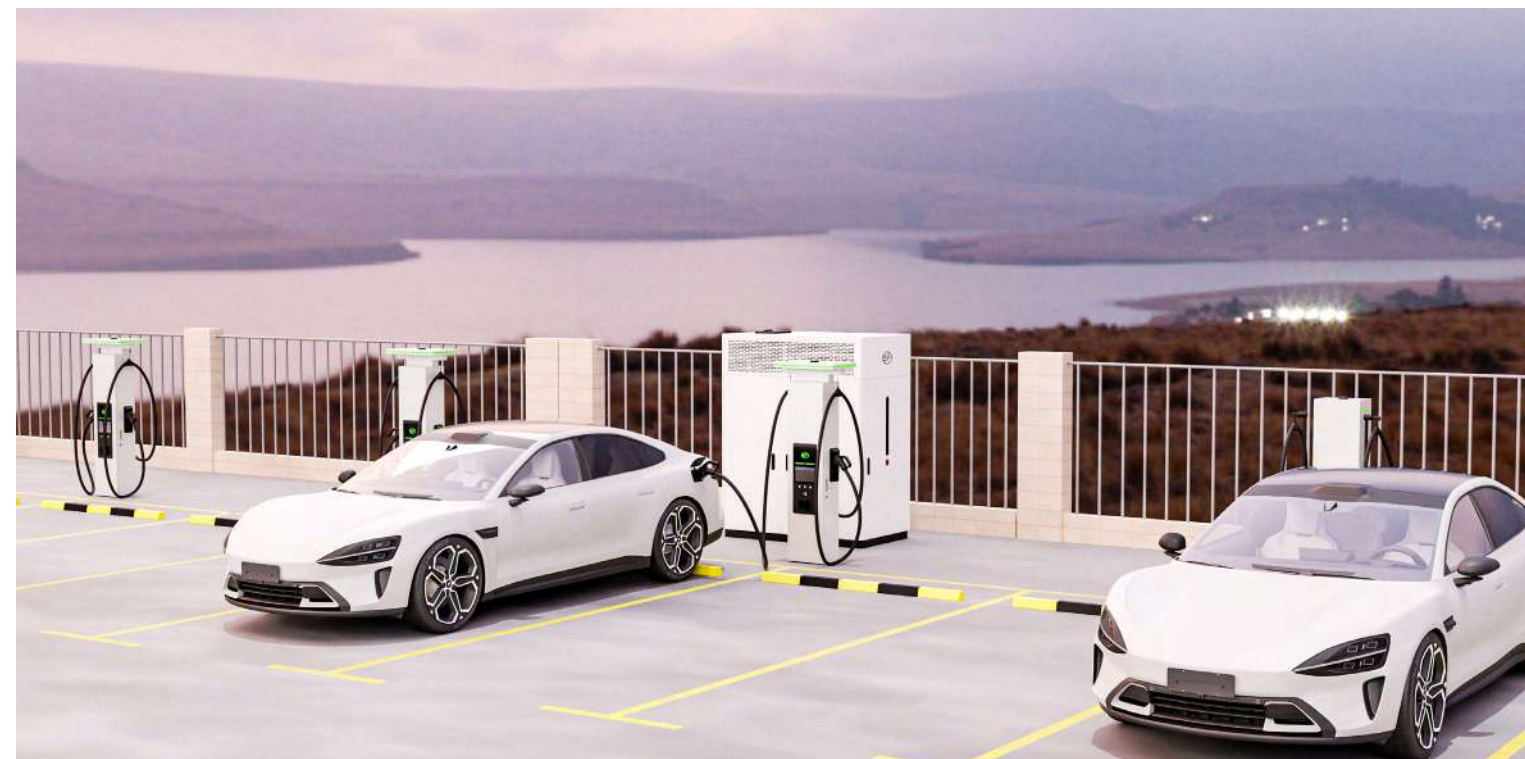
- Full liquid cooling AC/DC and DCDC modules
- Liquid cooling dispenser
- Dual pump liquid cooling
- Management system redundancy design

Strong protection capability

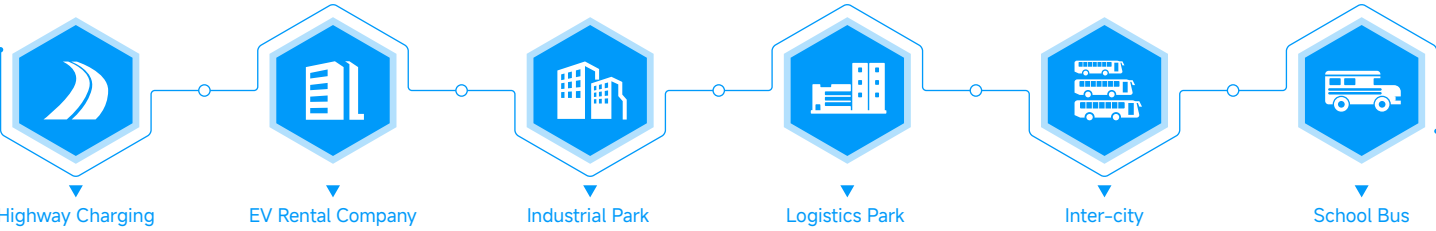
- Power Cabinet: IP65,
- Charging Dispenser: IP55

Long-life Design
≥ 10 years design life, 3 times longer than traditional air cooling

Interlock design
Power matrix hardware and software interlock



Scenarios



Specification

	Power Cabinet
Model	EVHPC-720K-L-US
AC Input	
Input Type	3P 5W, Dual Inputs
Cable Entrance Method	Bottom entrance
Rated Input Voltage	AC 480V +10%/-30%
Input Frequency	45Hz ~ 65Hz
Power Factor	≥ 0.99 (>50% Load)
THDi	≤ 5% (Rated Input)
DC Input	
Input Type	DC+, DC-, PE
Cable Entrance Method	Bottom entrance
Input Voltage	700Vdc ~ 950Vdc, Full Power 770Vdc ~ 930Vdc
Input Current	DC 972A (720kW)
Appearance & Weight	
Configuration	Maximum Power 720kW, Downward compatible 600KW, 480KW
Dimensions(W*H*D)	≤ 1700*2150*1000mm
Weight	≈ 1500Kg
Maintenance Interface	Power cabinet: front,rear and side opening doors for maintenance
Protection	
Ingress Protection Rating	Power cabinet: IP65
Noise	Noise Standard mode: Noise ≤ 55dBA@1m (ambient temperature 25°C); Noise ≤ 65dBA@1m max; Silent mode: Noise ≤ 55dBA@1m max
Environment	
Operating Temperature Range	-35°C ~ 70°C
Storage Temperature Range	-40°C ~ 75°C
Relative Humidity	5% ~ 95%
Operating Altitude	4000m

	MCS Cooling Dispenser	Liquid Cooling Dispenser	Natural Cooling Dispenser
Model	EVHD2-960K-L-US	EVHD1-480K-L-US	EVHD2-360K-N-US
Charging Output Dispenser(s)			
Electrical Configuration	Each liquid cooling dispenser with one MCS liquid cooling connector	Each liquid cooling dispenser with one CCS1/NACS liquid cooling connector	Each natural cooling dispenser with one CCS1/NACS natural cooling connector
Output Voltage		200Vdc ~ 1000Vdc	
Rated Output Power	960kW	480kW	180kW
Maximum Current For Single Circuit	1500A	800A	300A
Power Distribution	Dynamic power distribution. Minimum granularity of 60KW for a single connector.		
System Efficiency	≥ 96% (≥ 50% Load)		
Stabilized Current Precision	≤ ± 1%		
Stabilized Voltage Precision	≤ ± 0.5%		
Voltage Ripple	≤ ± 0.5%		
Appearance & Weight			
Dimensions(W*H*D)	390*1900*295mm	390*1700*295mm	390*1700*295mm
Weight	≤ 140kg	≤ 120kg	≤ 110kg
Charging Connector	Cable length: 3.5m	Cable length: 3.5m Wire diameter: 31mm	Cable length: 5m
Maintenance	Charging dispenser: Rear door maintenance		
Protection			
Ingress Protection Rating	Liquid cooling & Natural cooling dispenser: IP55; Heat exchange cabinet unit: IP20		
Noise	Noise ≤ 55dBA@1m (ambient temperature 25℃)		
Environment			
Operating Temperature Range	-35℃ ~ 70℃		
Storage Temperature Range	-40℃ ~ 75℃		
Relative Humidity	5% ~ 95%		
Operating Altitude	4000m		
Standby Power Consumption	Power Cabinet ≤ 70W, Charging Dispenser ≤ 50W		
Monitor and Communication			
BMS Communication	ISO 15118		
Telecommunication	Private communication protocol, compatible with mainstream platform communication protocol default LAN Wired connection, LTE 4G connection optional		
HCI (Dispenser)	10 inch color touch screen, 1280*800 resolution, 1000 nit brightness; Panel LED lights show device status; Support RF card.		
Charging Mode	Automatic switch according to power, take turns to charge, insert connector switch, timing switch		
Remote Upgrade	Remote software and firmware upgrades		
Protection			
Input Protection	Input overvoltage and undervoltage protection		
Output Protection	Over voltage protection, over current protection, short circuit protection, battery reverse protection, insulation protection		
Overtemperature protection	60℃≤ Ambient temperature< 70℃ (For every 1℃ increase in ambient temperature, the maximum output power decreases by 5%. 70℃ overtemperature protection) Charging connector overtemperature protection		
Others	Open door protection, BMS data abnormal protection, emergency stop protection, abnormal drawing protection, lock conector function when charging		
Maintainability			
Operating Space	Operating space for replacement and maintenance of any component in the electrical cabinet		
Easy to Replace	Modular design, easy replacement of charging module, controller and electrical components		
MTBF	≥ 26280 h		
Service life	≥ 10 Years		
Standards			
Design Standards	SAEJ1772-2017, UL 2202, UL 1998, UL 991		