



2021-2022 PHIHONG EV CHARGERS

World Class Quality, International Standards



Phihong Technology Co., Ltd is a core member of the organization Charging Interface Initiative e. V. (CharIN e. V.) and member of CHAdeMO Association. The goal is to promote and continuously develop the Combined Charging System (CCS) also ensuring compatibility between the infrastructure and the EVs.

Phihong Technology

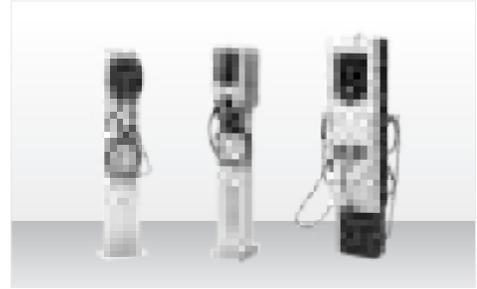
Phihong is a leading global power products manufacturer with over 50 years of industry experience. As a supplier to many of the world's leading brands, Phihong continues to design innovative products with an emphasis on environmental protection and carbon reduction.

Phihong offers a complete product line of EV charging solutions supporting both commercial and passenger electric vehicles. This includes Level 3 DC chargers ranging from 30kW to 360kW and Level 2 AC EVSE ranging from 16 to 48 amps. In addition, Phihong offers DC charging modules, auxiliary power, control & supervisor units (CSU), discrete type DC chargers, integrated type DC chargers, moveable DC chargers, and portable DC chargers.

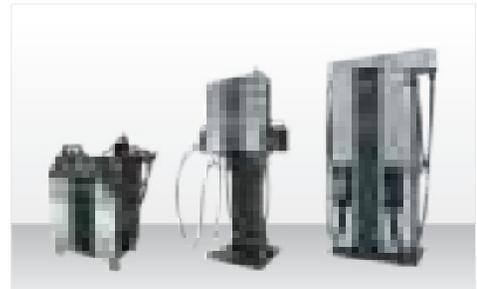
Phihong's EV charging software solutions include a front-end mobile APP and user interface (HMI) and a cloud-based management, payment, and monitoring platform. Through the front-end mobile APP, people can search for nearby chargers, schedule charging appointments, and monitor charging status. System operators can monitor the status of individual EV chargers and remotely update them, enabling long-term maintenance and management. With strong R&D design capabilities and solid manufacturing experience, Phihong Technology delivers high-quality and cost-effective hardware/software products based on specific customer needs.

Please contact us for more information:
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- OEM/ODM/White Label business
- System operators
- EV charger manufacturers
- Electric vehicle manufacturers



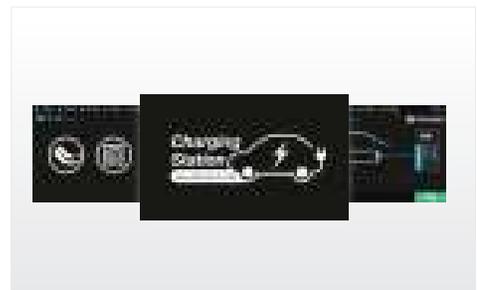
OEM/ODM - AC Chargers



OEM/ODM - DC Chargers



Modules



Human Interface (HMI) & Mobile APP



OEM/ODM -
Hardware/Software Solutions

Production Base



Phihong Vietnam
Mass production began in 2020.

In 1996, Phihong established the first overseas production base in Dongguan City, the third-largest computer production area in the world. Dongguan Phitek Electronics Co., Ltd and Chin Sheng Hong (Jiangxi) Electronics Co., Ltd. were established in succession. The plant areas cover 40,911 square meters and employ more than 4,000 people. All Phihong production plants in China passed ISO9001 quality system certification, ISO14001 environmental certification, and ISO 45001 occupational safety and health systems certification.

In response to the Sino-American trade war in late 2018, the company launched the New Southbound Plan. The plan included constructing factories in Vietnam to avoid the risk of concentrating production in China and to increase shipment flexibility. Located in the second largest seaport in Vietnam, shipment by vessels to China, Japan, Korea, Europe, and North America can be shipped weekly. The plant area covers 22,418 square meters and employs approximately 1,500 people from the local area. Mass production began in Q1 of 2020.



Phihong (DongGuan)



Dong Guan Phitek



Chin Sheng Hong (JiangXi)

Certificate

With ISO 9001 and ISO 13485 quality management systems for industrial and medical products, Phihong offers comprehensive power solutions for customers. Moreover, our EV chargers and other car electronics are IATF 16949:2016 certified, providing assurance that Phihong delivers high-quality products in addition to exceptional after-sales service.

IATF 16949:2016
Manufacture of charger



Ocpp 1.6
Open Charge Point Protocol.



Integrated Product Service

Phihong Technology has established a comprehensive operation model that integrates diverse products and services with research and design, manufacturing, marketing, and services. Be it in public construction projects or implementing Taiwan's island-wide charging station project, Phihong's corporate social responsibility covers green energy and environmental protection.



Development & Design

- Power modules design 30kW~60kW
- 7kW~360kW moveable/wall-mounted/free standing charger design
- Planning of EV & E motor charging stations
- Integration of energy storage and safety management
- CE ETL, cTUVus(Complies with UL), CNS, GB certification
- IEC62196-2 Type 1 & 2, CCS, CHAdeMO, SAE J1772, GB/T charging interface

Production & Manufacturing

- Taiwan / Dongguan China / Vietnam
- IATF16949 / ISO 45001
- ISO 9001 / ISO 13485 / ISO 14001

Survey & Construction

- Charging station planning
- Electrical power evaluation
- License application
- Operator management
- Professional installation

Back-end Cluster Management

- Back end/cloud platform development & management
- Real-time monitoring and management of chargers
- Mobile APP
- Account authorization management
- Supports operators with payment methods, such as credit cards, easy cards, iPass, 3rd party payment options
- Big data analysis

Post-Sale Services

(Service available in select regions. Please consult with local Phihong sales staff.)

- Comprehensive training
- 24/7 service
- Firmware upgrade
- Safe storage of factory repair parts
- Professional repair team

Production and Testing

Production and System Testing



Semi-finished Product Testing: Wave-Soldering Assembly



Semi-finished Products: Testing & Assembly

Charger - Assembly



DC Chargers: Assembly

AC Chargers: Assembly

Charger - Burn In



DC Charger Burn-in System

AC Charger Burn-in System

Power Module Burn-in System

Future Trend Outlook



▲ Pihong Technology installed “Audi Fast Charging Stations” at locations throughout Taiwan. (Picture from Audi)

To establish a more convenient charging environment, Pihong has entered into strategic partnerships with clients to leverage the company's years of experience in the EV industry. In 2020, Pihong and Audi partnered to deliver a smart charging experience for EV owners throughout Taiwan. This, along with a collaboration with Noodoe, resulted in Pihong constructing multiple “Audi Fast Charging Stations” to support Audi's e-tron electric vehicle. Chargers were deployed in Taipei City, New Taipei City, Hsinchu City, Taichung City, and Kaohsiung City to provide a more comprehensive and dependable charging network for electric vehicle owners in Taiwan. Pihong remains committed to enabling convenient EV charging networks and offers a full range of commercial, residential, and portable charging solutions.

Global urban populations are expanding. It is estimated that by 2050, 66% of the worldwide population will be living in cities. To reduce increasing traffic congestion and the carbon footprint governments of various nations are working with car manufacturers to implement smart services and ridesharing by encouraging the use of electric vehicles. The global trend of reducing carbon emissions has also propelled the sales of EV's internationally, and in 2019, over 5 million EV's were sold globally. The global market share for EV's is projected to be 10% of all vehicles by 2030.

In 2013, Pihong began designing electric vehicle systems and charging solutions. As a result, Pihong now offers a complete line of both Level 2 and Level 3 charging products. Today, Pihong is the leading charger supplier for Canada's electric buses, and is a recognized supplier of EV charging systems by car manufacturers and operators throughout China, Japan, the USA, and Europe.



Sales Performance



Jaguar Taiwan customers who pre-ordered the I-PACE electric vehicle received a complimentary Pihong Technology household wall-mounted AC charger.



International luxury hotels, California



International luxury hotels, California





Pihong Vietnam



Safety

Pihong Technology strives to design innovative products while maintaining superior quality and international safety standards.

AC Chargers



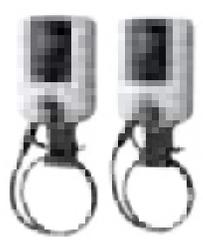
16A Portable EV AC Charger

P.09



w/Wi-Fi w/o Wi-Fi RFID
32A EV AC Charger

P.11



RFID
32A Wall Mount EV AC Charger

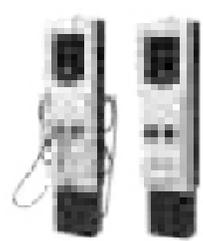
P.13



w/Wi-Fi w/o Wi-Fi RFID
48A-11kW Single Phase
32A-22kW Three Phase EV AC Charger

P.15

DC Chargers



RFID
32A/63A Pedestal EV AC Charger

P.17



30kW Wall Mount DC Fast Charger

P.19



30kW Moveable
DC Fast Charger

P.21



60kW Free Standing
DC Fast Charger

P.23



90kW/120kW/
150kW/180kW
Free Standing
DC Fast Charger

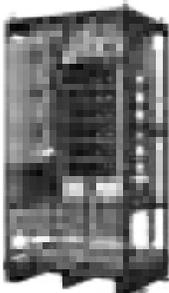
P.25



360kW - Fan Cooling
System DC Charger

P.31

DC Modules



180kW Power Rack
DC Fast Charger

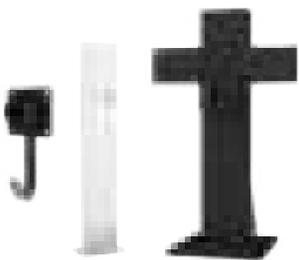
P.33



30kW EV DC
Charging Module

P.35

Accessories



P.37

Software Solution



Front End System
Back End System

P.38



Excellent Portable Charger

Fast, Simple, Safe

AC series

Portable EV AC Charger

- Model 2-chargers can use a circuit ranging from 8Amp to 16Amp with a local standard AC input plug installed for operation
- Provides overcurrent, over voltage and short circuit protection
- Protected against strong jets of water from all directions
- Continuously monitors/supervises the ground connection between the AC supply and EV to ensure safe and reliable charging

Applications

For indoor parking garage or outdoor use



Model Name	EA352	
Power Specification		
AC Input	Input Rating	Single phase:200~240VAC
	AC Input Connection	NEMA 6-20 (L1/L2/GND)
	Input Current	16A
	Frequency	50Hz/60Hz
AC Output	Output Current	8A-16A
Environmental		
Operating Temperature	-20°C~+50°C	
Humidity	Max. 95% RH	
Altitude(m)	≤ 2000m	
IP Level	IP66	
Cooling Method	Natural cooling	
Mechanical		
Dimension(WxDxH)	100x80x200mm	
Weight	≤ 3.5Kg	
Cable Length	6m	
Protection		
RCD	RCD Type A	
Input Side	UVP, OVP, Surge protection, Ground fault	
Output Side	OCP, Control pilot fault, Residual current protection	
Regulation		
Charging Interface	IEC 62196-2 Type 2	SAE J1772 Type 1

AW series

32A EV AC Charger



- Ideal for residential and commercial EV charging
- Optional wired/wireless connection for Central Management System
- Optional support for RFID card and QR code for user authentication and management
- Input: 200Vac~240Vac
- Modern, ergonomic and customizable design
- IP55 rated for indoor/outdoor applications
- Firmware updates through remote connection
- Charging interface: SAE J1772 (Type 1) or IEC 62196 (Type 2)
- OCPP 1.6 JSON

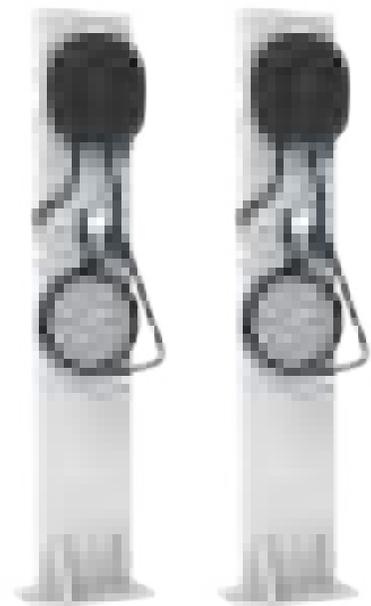


Applications

- Parking garage
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops

Model List

Function	Type 1	Type 2	Type 3	Type 4
	Non-Networking	Networking	Wi-Fi	4G
RFID	X	●	●	●
LAN	X	●	●	●
Wi-Fi	X	X	●	X
4G	X	X	X	●
OCPP	X	●	●	●



For information on the optional charging pedestal, please refer to the accessory section on page 37.

Model Name	AWSE770	AWLU770	AW8U770 AW9U770	AWSC770	AWSG770	AWSJ600001
Safety	CE/CB (Europe)	UL/CuI (North America)		CNS (Taiwan)	CQC (China)	JARI (Japan)
Picture						

Power Specification

AC Input	Input Rating	200~240Vac/Single phase					
	AC Input Connection	L/N/PE	L1/L2/GND	NEMA 14-50 NEMA 6-50	L/L1, N/L2, PE	L/N/PE	L/N/PE
	Input Current	32A					30A
	Frequency	50Hz/60Hz					
AC Output	Output Current	32A					30A

User Interface & Control

User Authentication	RFID (ISO/IEC 14443A/B, ISO/IEC 15693, FeliCa™, Mifare)
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Communication

External	LAN (optional) + 4G (optional) or Wi-Fi (optional)
Internal	OCPP 1.6 JSON

Environmental

Operating Temperature	-30°C~50°C					
Humidity	Max. 95% RH					
Altitude	≤ 2000m					
IP Level	IP55	NEMA TYPE 3R		IP55	IP55	IP55
Cooling Method	Natural Cooling					

Mechanical

Dimension(WxDxH)	260 x 100 x 280mm					
Weight	≤ 4Kg (With Plug)					
Cable Length	5m					

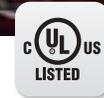
Protection

RCD/CCID	RCD Type B	CCID 20	RCD Type A	RCD Type A	RCD Type A	
Input Side	UVP, OVP, Surge protection, Ground fault					
Output Side	OCP, Control pilot fault, Residual current protection					
Internal	OTP, Relay welding detection, CCID self-test, MCU function fault detection					

Regulation

Certificate	IEC 61851-1, IEC 61851-21-2	UL2594, UL2231-1/-2	CNS 15511-2, CNS 15511-3,	GB/T 18487.1/2, GB/T 20234.1/2, GB/T 33594, GB/T 34657.1	JARI A 0001:2014 JARI A 0101:2014 JARI A 0201:2014 JARI A 0301:2014 JARI A 0401:2014
Wireless Certificate	RED	FCC/IC	NCC	-	-
Charging Interface	IEC 62196-2 Type 2 Plug	SAEJ1772 Type 1 Plug	SAEJ1772 Type 1 Plug	GB / T 20234.2	PSE Type 1 Plug

PHIHONG



AH series

32A Wall Mount EV AC Charger

- Ideal choice for residential and commercial EV charging
- Input: 200Vac~240Vac
- 5 inch LCD display
- Modern, ergonomic and customizable design
- IP55 rated for indoor/outdoor applications
- Firmware updates through remote connection
- Optional wired/wireless connection for Central Management System
- Optional support for RFID card and QR code for user identification and management
- Charging interface: SAE J1772 (Type 1)/IEC 62196-2 (Type 2)
- OCPP 1.6 JSON

Applications

- Parking garage
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops



For information on the optional charging pedestal, please refer to the accessory section on page 37.

Model Name	EA702C0E	EA702C1E	EA702C1U	EA702C1
Safety	CE (Europe)	CE (Europe)	UL/Cul (North America)	CNS (Taiwan)
Picture				

Power Specification

AC Input	Input Rating	200~240Vac/Single phase			
	AC Input Connection	L/N/PE	L/N/PE	L1/L2/GND	L/L1,N/L2,PE
	Input Current	32A			
	Frequency	50Hz/60Hz			
AC Output	Output Current	32A			

User Interface & Control

Display	5-inch LCD
User Authentication	RFID (ISO/IEC 14443A/B, ISO/IEC 15693, FeliCa™, Mifare)

Communication

External	LAN(standard)/Wi-Fi(optional)
Internal	OCPP 1.6 JSON

Environmental

Operating Temperature	-30°C~50°C			
Humidity	Max. 90% RH			
Altitude	≤ 2000m			
IP Level	IP55	IP55	NEMA TYPE 3R	IP55
Cooling Method	Natural Cooling			

Mechanical

Dimension(WxDxH)	290 x 120 x 410mm			
Weight	5.5Kg (With Socket)	≤ 8Kg (With Plug)		
Cable Length	5m			

Protection

RCD/CCID	RCD Type B	RCD Type B	CCID 20	RCD Type A 30 mA
Input Side	UVP, OVP, Surge protection, Ground fault			
Output Side	OCP, Control pilot fault, Residual current protection			
Internal	OTP, Relay welding detection, CCID self-test, MCU function fault detection			

Regulation

Certificate	IEC 61851-1, IEC61851-22	IEC 61851-1, IEC61851-22	UL2594, UL2231-1/-2	CNS 15511-1, CNS 15511-2 CNS 15511-3, CNS 15511-22
Charging Interface	IEC 62196-2 Type 2 Socket	IEC 62196-2 Type 2 Plug	SAEJ1772 Type 1 Plug	SAEJ1772 Type 1 Plug

AX Series

48A-11kW Single Phase
(North America)

32A-22kW Three Phase (EU)

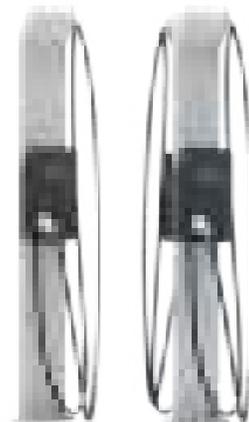
Wall-mount EV AC Charger



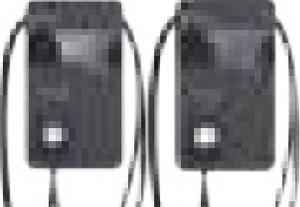
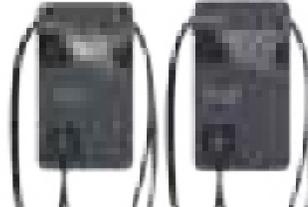
- Ideal for residential and commercial EV charging
- Optional wired/wireless connection for Central Management System
- Supports RFID card & QR code for user authentication and management
- Input: 200Vac~240Vac
- Modern, ergonomic and customizable design
- Optional 5 inch LCD display
- IP protection class for outdoors: IP56/NEMA4
- Supports Over the Air Technology
- Charging interface: SAE J1772 (Type 1)/IEC 62196-2 (Type 2)
- Supports OCPP 1.6 Json (Upgradeable to 2.0)
- Supports RS232/485 external communication interface (Optional)
- Supports ISO 15118 protocol
- Supports dynamic output load distribution, making the field power configuration planning of charging stations more flexible

Applications

- Parking garage
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops



For information on the optional charging pedestal, please refer to the accessory section on page 37.

Model Name	AX32 Cable	AX32 Socket	AXLU111
Safety	CE/CB (Europe)		UL/Cul (North America)
Picture			

Power Specification

AC Input	Input Rating	Three-phase : 3P+N+PE ; 380~415Vac	Single-phase: 200~240Vac
	AC Input Connection	L1/L2/L3/N/PE	L1/L2/GND or L/N/PE
	Input Current	32A	48A
	Frequency	50Hz/60Hz	
AC Output	Output Current	32A / 16A Type-E Socket (Optional)	48A
	Output Power	22kW (adjustable 11kW)	11kW

User Interface & Control

Display	LED pilot lamp (standard), 5-inch LCD (Optional)		
User Authentication	RFID (ISO/IEC 14443A/B, ISO/IEC 15693, FeliCa™, Mifare), ISO 15118		
Meter	Meter IC (1% Accuracy) MID Meter (Optional)	Meter IC (1% Accuracy) MID Meter (Optional)	Meter IC(1% Accuracy)

Communication

External	LAN+WiFi (standard) or LAN+4G+WiFi (Optional)		
Internal	OCPP 1.6 JSON (Upgradeable to 2.0) EEBUS (support in 2022)		

Environmental

Operating Temperature	-30 °C to +50 °C (standard) or -20 °C to +50 °C (with payment system)		
Humidity	< 85% (RH) @50 °C		
Altitude	≤ 2000m		
Enclosure Protection (IK/IP Level)	IP56 (TYPE E Socket Model is IP55) & IK08	NEMA TYPE 4	
Cooling Method	Natural Cooling		

Mechanical

Dimension(WxDxH)	Approx. 295 x 158 x 505mm	Approx. 295 x 180 x 505mm	Approx. 295 x 158 x 505mm
Weight	<7kg (with socket); <10kg (with plug)		
Cable Length	5m / 7.5m (Option and need to use cable management)		

Protection

RCD/CCID	RCD type A + DC 6mA	CCID 20	
Input Side	UVP, OVP, Surge protection, Ground fault		
Output Side	OCP, Control pilot fault, Residual current protection		
Protocol	OTP, Relay welding detection, CCID self-test, MCU function fault detection		

Regulation

Certificate	IEC 61851-1, IEC 61851-21-2		UL2594, UL2231-1/-2 CTEP Energy Star
Wireless Certificate	RED		FCC/IC
Charging Interface	IEC 62196-2 Type 2 Plug	IEC 62196-2 Type 2 Shuttered Socket	SAEJ1772 Type 1 Plug

AP series (Not available in North America)

32A / 63A Pedestal EV AC Charger



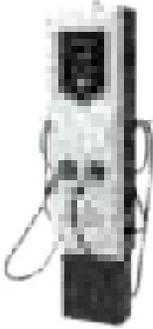
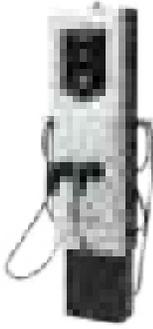
Feature

- Ideal for residential and commercial EV charging
- Modern, ergonomic and customizable design
- 5 inch LCD display
- IP54 rated for indoor/outdoor applications
- Firmware updates through remote connection
- Optional wired/wireless connection for back-office management
- Optional RFID card reader for user identification and management
- Charging interface: IEC 62196-2 (Type 2)
- OCPP 1.6JSON

Applications

- Parking garage
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops



Model Name	EA443E3E	EA443E2E	EA873E3E	
Safety	CE/CB (Europe)			
Picture				
Power Specification				
AC Input	Input Rating	Three-phase:3P+N+PE ; 380~415Vac		
	Input Current	64A	64A	126A
	Frequency	50Hz/60Hz		
AC Output	Output Current	32Ax2	32Ax2	63Ax2
User Interface & Control				
Display	5-inch LCD			
User Authentication	RFID (ISO/IEC 14443A/B, ISO/IEC 15693, FeliCa™, Mifare)			
Energy Metering	Class 1.0 accuracy (MID Certified Meter)			
Communication				
External	LAN(standard)/4G(optional)			
Internal	OCPP 1.6 JSON			
Environmental				
Operating Temperature	-30°C~50°C			
Humidity	Max. 95% RH			
Altitude	≤ 2000m			
IP Level	IP54			
Cooling Method	Natural cooling			
Mechanical				
Dimension(WxDxH)	420 x 305 x 1350mm			
Weight	32A Plug ≤ 57Kg	32A Socket ≤ 51Kg	63A Plug ≤ 70Kg	
Cable Length	5m	-	5m	
Protection				
RCD	RCD Type B			
Input Side	UVP, OVP, Surge protection, Ground fault			
Output Side	OCP & Control pilot fault, Residual current protection			
Internal	OTP, Relay welding detection, MCU function fault detection			
Regulation				
Certificate	IEC 61851-1, IEC61851-21-2			
Charging Interface	IEC 62196-2 Type 2 Plug	IEC 62196-2 Type 2 Socket	IEC 62196-2 Type 2 Plug	



DW series

30kW Wall Mount DC Fast Charger

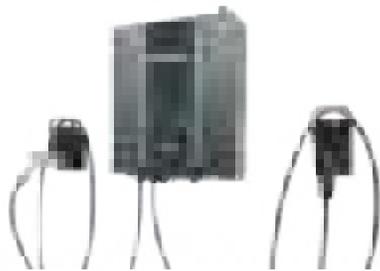
- Multi-standard: CCS and CHAdeMO
- Network or standalone operation
- User authentication
- Supports smart charging and load balancing
- Efficiency > 94%
- PF > 0.99(APFC)
- 7-inch LCD screen with user friendly interface
- OCPP 1.6 JSON
- IK10/NEMA 3R(Not including screen and RFID module), IP55
- Customization available

Applications

- Parking garage
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops



For information on the optional charging pedestal, please refer to the accessory section on page 37.

Model Name	CE, DW 30 Series	UL, DW 30 Series
Safety (Not including GB)	CE/CB (Europe)	NRTL – cETLus (USA/Canada)
Picture		

Power Specification

AC Input	Input Rating	3 Φ _380~415Vac (\pm 15%)	3 Φ _480Vac (+10%, -15%)
	AC Input Connection	3P+N+PE (Wye configuration), TN/TT/IT	3P+N+PE (Wye configuration), TN/TT
	Max. Input Current	3 Φ 47A	3 Φ 40A
	Frequency	50Hz/60Hz	
	Power Factor	>0.99	
	Efficiency	>94%,at optimize V/I point	
DC Output	Output Voltage Range	• CHAdeMO:150~500Vdc • CCS:150~950Vdc	
	Max. Output Current	CHAdeMO/CCS:60A@500Vdc	
	Max. Output Power	DC 30kW	
	Voltage Accuracy	\pm 2%	
	Current Accuracy	\pm 2%	

User Interface & Control

Display	7" LCD
Push Buttons	Operation buttons / Emergency stop button
User Authentication	RFID: support ISO 14443A/B, ISO 15693, FeliCa Lite-S (RCS966) OCPP, 2D barcode, APP, Mobile payment

Communication

External	Ethernet,Wi-Fi,and 4G
Internal	CAN bus/RS485

Environmental

Operating Temperature	-30° C~50° C, will derating from 50° C and above	
Humidity	5%~95% RH, non-condensing	
Altitude	\leq 2000m	
IP/IK Level	IP55/IK10 (not including screen and RFID module)	• NEMA 3R • IK10 (not including screen and RFID module)
Cooling Method	Fan cooling	

Mechanical

Cabinet Dimension(W x D x H)	610 x 230 x 690mm \pm 1%
Weight	Single plug: \leq 80kg \pm 1%/Dual plugs: \leq 88kg \pm 1%
Cable Length	4m

Protection

Input Protection	OVP, OPP, OTP, UVP, SPD
Output Protection	SCP, OCP, OVP, LVP, OTP, IMD

Regulation

Certificate	IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL2231
Charging Interface	CHAdeMO V1.2, DIN 70121, ISO15118	



DM series

30kW Moveable DC Fast Charger



Feature

- Multi-standard: CCS, CHAdeMO and GB/T
- Network or standalone operation
- User authentication
- Supports smart charging and load balancing
- Efficiency > 94%
- PF > 0.99(APFC)
- 7-inch LCD screen with user friendly interface
- OCPP 1.6 JSON
- IK10/NEMA 3R(Not including screen and RFID module), IP55
- Customization available

Applications

- Parking garage
- Commercial fleet operators
- EV dealer workshops

Wheel



For EU



For US

Model Name	CE, DM 30 Series	UL, DM 30 Series
Safety (Not including GB)	CE/CB (Europe)	NRTL – cETLus (USA/Canada)
Picture		

Power Specification

AC Input	Input Rating	3 Φ _380~415Vac (\pm 15%)	3 Φ _480Vac (+10%, -15%)
	AC Input Connection	3P+N+PE (Wye configuration),TN/TT/IT	3P+N+PE (Wye configuration),TN/TT
	Max. Input Current	3 Φ 47A	3 Φ 40A
	Frequency	50Hz/60Hz	
	Power Factor	> 0.99	
	Efficiency	>94%,at optimize V/I point	
DC Output	Output Voltage Range	• CHAdeMO:150~500Vdc • CCS:150~950Vdc	
	Max. Output Current	CHAdeMO/CCS:60A@500Vdc	
	Max. Output Power	DC 30kW	
	Voltage Accuracy	\pm 2%	
	Current Accuracy	\pm 2%	

User Interface & Control

Display	7" LCD
Push Buttons	Operation buttons /Emergency stop button
User Authentication	RFID: support ISO 14443A/B, ISO 15693, FeliCa Lite-S (RCS966) OCPP, 2D barcode, APP, Mobile payment

Communication

External	Ethernet,Wi-Fi,and 4G
Internal	CAN bus/RS485

Environmental

Operating Temperature	-30°C~50°C, will derating from 50°C and above	
Humidity	5%~95% RH, non-condensing	
Altitude	\leq 2000m	
IP/IK Level	• IP55 • IK10 (not including screen and RFID module)	• NEMA 3R • IK10 (not including screen and RFID module)
Cooling Method	Fan cooling	

Mechanical

Cabinet Dimension(W x D x H)	W589XD620XH1020mm(cable holder 155)	W589XD620XH988mm (cable holder 155)
Weight	\leq 80kg \pm 1%	
Cable Length	4m	

Protection

Input Protection	OVP, OCP, OPP, OTP, UVP, RCD, SPD	OVP, OCP, OPP, OTP, UVP, SPD
Output Protection	OCP, SCP, OVP, LVP, OTP, IMD	

Regulation

Certificate	IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL2231
Charging Interface	CHAdeMO V1.2, DIN 70121, ISO15118, GB/T 27930	

DS series

60kW Free Standing DC Fast Charger

TR25

CE



- Simultaneous 2 DC Charging
- Multi-standard: CCS, CHAdeMO and GB/T
- Network or standalone operation
- User authentication
- Optional cable management accessories
- Supports smart charging and load balancing
- Efficiency > 94%; PF > 0.99 (APFC)
- 7-inch LCD screen with user friendly interface
- OCPP 1.6 JSON
- IK10/NEMA 3R (Not including screen and RFID module), IP55
- Customization available
- Eichrecht compliant: Q3/ 2021 using LEM mater, Eichrecht certification TBD starting Q4/ 2021

Cable Management

Please refer to page 37 for accessory information.



Model Name	CE, DS 60 Series	UL, DS 60 Series
Safety	CE/CB (Europe)	NRTL – cETLus (USA/Canada)
Picture		

Power Specification

AC Input	Input Rating	3 Φ _380~415Vac (\pm 15%)	3 Φ _480Vac (+10%, -15%)
	AC Input Connection	3P+N+PE (Wye configuration), TN/TT/IT	3P+N+PE (Wye configuration), TN/TT
	Max. Input Current	• DC System:3 Φ 118A	• DC System:3 Φ 100A
	Frequency	50Hz/60Hz	
	Power Factor	>0.99	
	Efficiency	>94%,at optimize V/I point	
DC Output	Output Voltage Range	• CCS2:150~950Vdc • CHAdeMO:150~500Vdc • GBT:150~750Vdc	• CCS1:150~950Vdc • CHAdeMO:150~500Vdc
	Max. Output Current	• CHAdeMO/CCS2/GBT:120A@500Vdc	• CHAdeMO/CCS1:120A@500Vdc
	Max. Output Power	• DC System:60kW	• DC System:60kW
	Voltage Accuracy	\pm 2%	
	Current Accuracy	\pm 2%	

User Interface & Control

Display	7" LCD	
Push Buttons	Operation buttons/ Emergency stop button	
User Authentication	RFID: support ISO 14443A/B, ISO 15693, FeliCa Lite-S (RCS966) OCPP, 2D barcode, APP, Mobile payment	
Meter	AC MID Meter (with CE), DC PTB Meter (2021Q4)	AC/DC Meter (2022)

Communication

External	Ethernet,Wi-Fi,and 4G	
Internal	CAN bus/RS485	

Environmental

Operating Temperature	-30°C~50°C, will derating from 50°C and above	
Humidity	5%~95% RH, non-condensing	
Altitude	\leq 2000m	
IP/IK Level	• IP55 • IK10 (not including screen and RFID module)	• NEMA 3R • IK10 (not including screen and RFID module)
Cooling Method	Fan cooling	

Mechanical

Cabinet Dimension(W x D x H)	700 x 331 x 1800 mm \pm 1%	
Weight	\leq 235kg \pm 1%	
Cable Length	4m	4m

Protection

Input Protection	OVP, OCP, OPP, OTP, UVP, RCD, SPD	OVP, OCP, OPP, OTP, UVP, SPD
Output Protection	OCP, SCP, OVP, LVP, OTP, IMD	

Regulation

Certificate	IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL2231
Charging Interface	CHAdeMO V1.2, DIN 70121, ISO15118, GB/T 27930	

DS series



90kW / 120kW / 150kW / 180kW Free Standing DC Fast Charger

- Optional non-Liquid-cooled 500A charging connector*
- Simultaneous 2 DC charging
- Multi-standard: CCS, CHAdeMO and GB/T
- Network or standalone operation
- User authentication
- Optional cable management accessories
- Supports smart charging and load balancing
- Efficiency > 94%; PF > 0.99(APFC)
- 7-inch LCD screen with user friendly interface
- OCPP 1.6 JSON
- IK10/NEMA 3R(Not including screen and RFID module), IP55
- Customization available
- Eichrecht compliant: Q3/ 2021 using LEM mater, Eichrecht certification TBD starting Q4/ 2021

* 300A to 500A duty cycle is following charging connector's instruction

Applications

- Parking garage
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops
- Gas/Service stations





Cable Management

Please refer to page 37 for accessory information.



Model Name	CE, DS 90 Series	UL, DS 90 Series
Safety	CE/CB (Europe)	NRTL – cETLus (USA/Canada)
Picture		

Power Specification

AC Input	Input Rating	3Φ_380~415Vac (±15%)	3Φ_480Vac (+10%, -15%)
	AC Input Connection	3P+N+PE (Wye configuration), TN/TT/IT	3P+N+PE (Wye configuration), TN/TT
	Max. Input Current	• DC System:3Φ175A	• DC System:3Φ139A
	Frequency	50Hz/60Hz	
	Power Factor	>0.99	
	Efficiency	>94%,at optimize V/I point	
DC Output	Output Voltage Range	<ul style="list-style-type: none"> • CCS2:150~950Vdc • CHAdeMO:150~500Vdc • GBT: 150~750Vdc 	<ul style="list-style-type: none"> • CCS1:150~950Vdc • CHAdeMO:150~500Vdc
	Max. Output Current	<ul style="list-style-type: none"> • CHAdeMO:120A@500V • CCS2:200A@450V • GBT:250A@360V 	<ul style="list-style-type: none"> • CHAdeMO:120A@500V • CCS1:200A@450V
	Max. Output Power	• DC System:90kW	• DC System:90kW
	Voltage Accuracy	±2%	
	Current Accuracy	±2%	

User Interface & Control

Display	7" TFT-LCD
Push Buttons	Operation button/Emergency stop button
User Authentication	RFID: support ISO 14443A/B, ISO 15693, FeliCa Lite-S (RCS966) OCPP, 2D barcode, APP, Mobile payment

Communication

External	Ethernet,Wi-Fi,and 4G
Internal	CAN bus/RS485

Environmental

Operating Temperature	-30°C~50°C, will derating from 50°C and above	
Humidity	5%~95% RH, non-condensing	
Altitude	≤ 2000m	
IP/IK Level	<ul style="list-style-type: none"> • IP55 • IK10 (not including screen and RFID module) 	<ul style="list-style-type: none"> • NEMA 3R • IK10 (not including screen and RFID module)
Cooling Method	Fan cooling	

Mechanical

Cabinet Dimension(W x D x H)	800 x 650 x 1900mm ±1%	
Weight	≤ 390kg ±1%	
Cable Length	4m	4m

Protection

Input Protection	OVP, OCP, OPP, OTP, UVP, RCD, SPD	OVP, OCP, OPP, OTP, UVP, SPD
Output Protection	OCP,SCP,OVP, LVP, OTP, IMD	

Regulation

Certificate	IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL2231
Charging Interface	CHAdeMO V1.2, DIN 70121, ISO15118, GB/T 27930	

CE, DS 120 Series	UL, DS 120 Series
CE/CB (Europe)	NRTL – cETLus (USA/Canada)



3Φ_380~415Vac (±15%)	3Φ_480Vac (+10%, -15%)
3P+N+PE (Wye configuration), TN/TT/IT	3P+N+PE (Wye configuration), TN/TT
• DC System:3Φ230A	• DC System:3Φ170A
50Hz/60Hz	
>0.99	
>94%,at optimize V/I point	
<ul style="list-style-type: none"> • CCS2:150~950Vdc • CHAdeMO:150~500Vdc • GBT: 150~750Vdc 	<ul style="list-style-type: none"> • CCS1:150~950Vdc • CHAdeMO:150~500Vdc
<ul style="list-style-type: none"> • CHAdeMO:120A@500V • CCS2@200A@600V, optional 300A • GBT:250A@480V 	<ul style="list-style-type: none"> • CHAdeMO:120A@500V • CCS1:200A@600V, optional 300A
• DC System:120kW	• DC System:120kW
±2%	
±2%	
7" TFT-LCD	
Operation button/Emergency stop button	
RFID: support ISO 14443A/B, ISO 15693, FeliCa Lite-S (RCS966) OCPP, 2D barcode, APP, Mobile payment	
Ethernet,Wi-Fi,and 4G	
CAN bus/RS485	
-30°C~50°C, will derating from 50°C and above	
5%~95% RH, non-condensing	
≤ 2000m	
<ul style="list-style-type: none"> • IP55 • IK10 (not including screen and RFID module) 	<ul style="list-style-type: none"> • NEMA 3R/IK10 • (not including screen and RFID module)
Fan cooling	
800 x 650 x 1900mm ±1%	
≤ 420kg ±1%	
4m	4m
OVP, OCP, OPP, OTP, UVP, RCD, SPD	OVP, OCP, OPP, OTP, UVP, SPD
OCP, SCP, OVP, LVP, OTP, IMD	
IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL2231
CHAdeMO V1.2, DIN 70121, ISO15118, GB/T 27930	

Model Name	CE, DS 150 Series	UL, DS 150 Series
Safety	CE/CB (Europe)	NRTL – cETLus (USA/Canada)
Picture		

Power Specification

AC Input	Input Rating	3 Φ _380~415Vac (\pm 15%)	3 Φ _480Vac (+10%, -15%)
	AC Input Connection	3P+N+PE (Wye configuration), TN/TT/IT	3P+N+PE (Wye configuration), TN/TT
	Max. Input Current	• DC System:3 Φ 288A	• DC System:3 Φ 215A
	Frequency	50Hz/60Hz	
	Power Factor	>0.99	
	Efficiency	>94%,at optimize V/I point	
DC Output	Output Voltage Range	<ul style="list-style-type: none"> • CCS2:150~950Vdc • CHAdeMO:150~500Vdc • GBT:150~750Vdc 	<ul style="list-style-type: none"> • CCS1:150~950Vdc • CHAdeMO:150~500Vdc
	Max. Output Current	<ul style="list-style-type: none"> • CHAdeMO:120A@500V • CCS2:200A@750V, optional 300A • GBT:250A@600V 	<ul style="list-style-type: none"> • CHAdeMO:120A@500V • CCS1:200A@750V, optional 300A
	Max. Output Power	• DC System:150kW	• DC System:150kW
	Voltage Accuracy	\pm 2%	
	Current Accuracy	\pm 2%	

User Interface & Control

Display	7" TFT-LCD
Push Buttons	Operation button/Emergency stop button
User Authentication	RFID: support ISO 14443A/B, ISO 15693, FeliCa Lite-S (RCS966) OCPP, 2D barcode, APP, Mobile payment

Communication

External	Ethernet,Wi-Fi,and 4G
Internal	CAN bus/RS485

Environmental

Operating Temperature	-30°C~50°C, will derating from 50°C and above	
Humidity	5%~95% RH, non-condensing	
Altitude	\leq 2000m	
IP/IK Level	<ul style="list-style-type: none"> • IP55 • IK10 (not including screen and RFID module) 	<ul style="list-style-type: none"> • NEMA 3R • IK10 (not including screen and RFID module)
Cooling Method	Fan cooling	

Mechanical

Cabinet Dimension(W x D x H)	800 x 650 x 1900mm \pm 1%	
Weight	\leq 460kg \pm 1%	
Cable Length	4m	4m

Protection

Input Protection	OVP, OCP, OPP, OTP, UVP, RCD, SPD	OVP, OCP, OPP, OTP, UVP, SPD
Output Protection	OCP, SCP, OVP, LVP, OTP, IMD	

Regulation

Certificate	IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL2231
Charging Interface	CHAdeMO V1.2, DIN 70121, ISO15118, GB/T 27930	

CE, DS 180 Series	UL, DS 180 Series
CE/CB (Europe)	NRTL – cETLus (USA/Canada)



3Φ_380~415Vac (±15%)	3Φ_480Vac (+10%, -15%)
3P+N+PE (Wye configuration), TN/TT/IT	3P+N+PE (Wye configuration), TN/TT
• DC System:3Φ350A	• DC System:3Φ260A
50Hz/60Hz	
>0.99	
>94%,at optimize V/I point	
<ul style="list-style-type: none"> • CCS2:150~950Vdc • CHAdeMO:150~500Vdc • GBT: 150~750Vdc 	<ul style="list-style-type: none"> • CCS1:150~950Vdc • CHAdeMO:150~500Vdc
<ul style="list-style-type: none"> • CHAdeMO:120A@500V • CCS2:200A@900V, optional 300A • GBT:250A@720V 	<ul style="list-style-type: none"> • CHAdeMO:120A@500V • CCS1:200A@900V, optional 300A
• DC System:180kW	• DC System:180kW
±2%	
±2%	
7" TFT-LCD	
Operation button/Emergency stop button	
RFID: support ISO 14443A/B, ISO 15693, FeliCa Lite-S (RCS966) OCPP, 2D barcode, APP, Mobile payment	
Ethernet,Wi-Fi,and 4G	
CAN bus/RS485	
-30°C~50°C, will derating from 50°C and above	
5%~95% RH, non-condensing	
≤ 2000m	
<ul style="list-style-type: none"> • IP55 • IK10 (not including screen and RFID module) 	<ul style="list-style-type: none"> • NEMA 3R • IK10 (not including screen and RFID module)
Fan cooling	
800 x 650 x 1900mm ±1%	
≤ 500kg ±1%	
4m	4m
OVP, OCP, OPP, OTP, UVP, RCD, SPD	OVP, OCP, OPP, OTP, UVP, SPD
OCP, SCP, OVP, LVP, OTP, IMD	
IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL2231
CHAdeMO V1.2, DIN 70121, ISO15118, GB/T 27930	

DO series

360kW - Fan Cooling System DC Charger

Features

- Simultaneous 4 DC charging, up to 360KW per output with liquid-cooled connector
- Up to 500A per output
- Power cabinet supports Pantograph Charging
- Multi-standard: CCS, CHAdeMO and GB/T
- Network or standalone operation
- User authentication
- Supports smart charging and load balancing
- Customization available
- Cabinet: Hair line brush(Optional)

Applications

- EV bus station
- Parking garage
- EV dealer workshops
- Commercial fleet operators
- EV infrastructure operators/
service providers
- Gas/Service stations



Model Name	CE, DO 360 Series	UL, DO 360 Series
Safety	TBD	
Picture		

Power Specification

AC Input	Input Rating	3 Φ _380~415Vac (\pm 15%)	3 Φ _480Vac (+10%, -15%)
	AC Input Connection	3P+N+PE (Wye configuration), TN/TT/IT	3P+N+PE (Wye configuration), TN/TT
	Max. Input Current	670A(CE)	538A(UL)
	Frequency	50Hz/60Hz	
	Power Factor	>0.99	
	Efficiency	>94%	
DC Output	Output Voltage Range	<ul style="list-style-type: none"> CCS :150~950Vdc GBT: 150~750Vdc CHAdEMO: 150~500Vdc 	
	Max. Output Current	<ul style="list-style-type: none"> CCS Liquid cooling plug : 500A@720V, CCS Nature Colling plug : 250A@950V, CHAdEMO: 200A@500V 	
	Max. Output Power	DC 360kW	
	Voltage Accuracy	\pm 2%	
	Current Accuracy	\pm 2%	

User Interface & Control

Display	7" TF T-LCD
Push Buttons	Operation buttons/Emergency stop button
User Authentication	RFID: support ISO 14443A/B, ISO 15693, FeliCa Lite-S (RCS966) OCPP, 2D barcode, APP, Mobile payment

Communication

External	Ethernet, Wi-Fi and 3G/4G
Internal	CAN bus/RS485

Environmental

Operating Temperature	-30°C~50°C, power derating from 50 and above
Humidity	5%~95% RH, non-condensing
Altitude	\leq 2000m
IP/IK Level	<ul style="list-style-type: none"> IP55 IK10 (not including screen and RFID module)
Cooling Method	Fan cooling

Mechanical

Cabinet Dimension(W x D x H)	1400 x 800 x 1900mm \pm 1% (main cabinet), 700 x 550 x 1800mm \pm 1% (sub cabinet)
Weight	\leq 1200 kg \pm 3% (main cabinet), \leq 300kg \pm 3% (sub cabinet)
Cable Length	4m

Protection

Input Protection	OVP, OCP, OPP, OTP, UVP, RCD, SPD	OVP, OCP, OPP, OTP, UVP, SPD
Output Protection	OCP, SCP, OVP, LVP, OTP, IMD	

Regulation

Compliance	IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL 2331
Charging Interface	CHAdEMO V1.2, DIN 70121, ISO15118, GB/T 27930	



Acrylic board for electrical shock proof

DR series

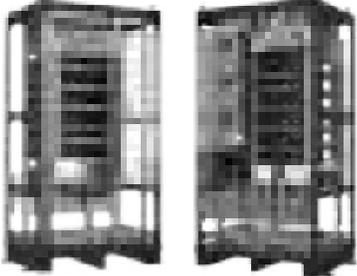
180kW Power Rack DC Fast Charger

Features

- Simultaneous 2 DC Charging
- Up to 500A per output
- Multi-standard: CCS, CHAdeMO and GB/T
- Network or standalone operation
- Supports smart charging and load balancing
- Efficiency > 94% ; PF > 0.99(APFC)
- OCPP 1.6 JSON
- Customization available

Applications

- Parking garage
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops

Model Name	CE, DR 180 Power Rack	UL, DR 180 Power Rack
Safety	Evaluated at end application	Evaluated at end application
Picture		

Power Specification

AC Input	Input Rating	3Φ_380~415Vac (±15%)	3Φ_480Vac (+10%, -15%)
	AC Input Connection	3P+N+PE (Wye configuration), TN/TT/IT	3P+N+PE (Wye configuration), TN/TT
	Max. Input Current	360A	285A
	Frequency	50Hz/60Hz	
	Power Factor	>0.99	
	Efficiency	>94% at optimize V/I point	
DC Output	Output Voltage Range	<ul style="list-style-type: none"> • CCS:150~950Vdc • GBT: 150~750Vdc • CHAdeMO:150~500Vdc 	
	Max. Output Current	500A	
	Max. Output Power	DC 180kW	
	Voltage Accuracy	±2%	
	Current Accuracy	±2%	

Communication

External	Ethernet,Wi-Fi,and 4G
Internal	CAN bus/RS485

Environmental

Operating Temperature	-30°C~50°C, will derating from 50°C and above
Humidity	5%~95% RH, non-condensing
Altitude	≤ 2000m
Cooling Method	Fan cooling

Mechanical

Cabinet Dimension(W x D x H)	960 x 780 x 1865 mm ±1%
Weight	≤ 430kg ±3%

Protection

Input Protection	OVP, OCP, OPP, OTP, UVP, RCD, SPD	OVP, OCP, OPP, OTP, UVP, SPD
Output Protection	OCP, SCP, OVP, LVP, OTP, IMD	

Regulation

Certificate of Compliance	IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL 2331
Charging Interface	CHAdeMO V1.2, DIN 70121, ISO15118, GB/T 27930	



Complies with UL

30kW EV DC Charging Module



- DC charging solution for electric vehicles
- Models with 150V~1000V charging voltage are available
- Digital controlled power
- Active PFC to achieve 0.99 power factor
- Complies with CCS and CHAdeMO, GB/T standards
- Soft start and pre-charging function
- Power input side: over/under voltage protection, surge protection
- DC output side: over/under voltage protection, over-current protection and short-circuit protection
- Modular and compact design for easy maintenance

Applications

Optional devices

- Ready for CCS, CHAdeMO, GB/T system integration.

Model Name	G-1K0100
Safety	CE (Europe) NRTL – cTUVus (North America, complies with UL)
Picture	

Power Specification

AC Input	Input Rating	260~530Vac
	AC Input Connection	3L + PE
	Max. Input Current	60A
	Frequency	45~65Hz
	Power Factor	> 0.99
	Efficiency	≥ 95% @1000Vdc/50%~100% load current, max. point ≥ 95.5%
	Standby Power	< 10W
DC Output	Output Voltage Range	150~1000Vdc
	Max. Output Current	0~100A
	Max. Output Power	30kW

Communication

Internal	CAN bus, Max. 48 Power modules in parallel
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Environmental

Operating Temperature	-40°C ~ +75°C, derating from 55°C
Humidity	≤95% RH, non-condensing
Altitude	≤ 2000m
IP Level	IP20
Cooling Method	Forced air

Mechanical

Dimension(W x D x H)	385 x 395 x 110 mm
Weight	≤ 21Kg

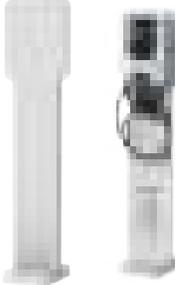
Protection

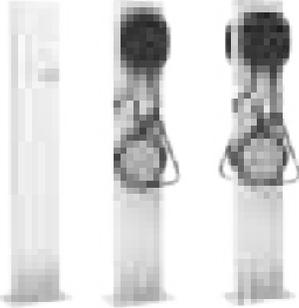
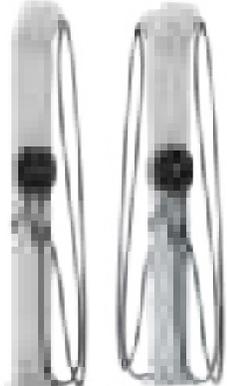
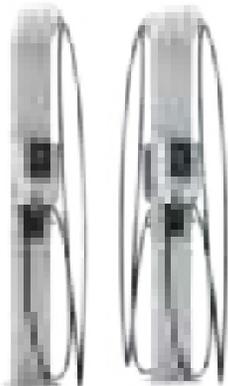
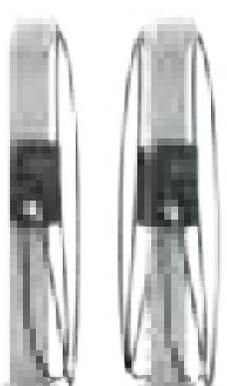
Input Protection	OVP, OCP, OPP, OTP, UVP, Surge protection
Output Protection	SCP, OVP, OCP, OTP, UVP
Electrical Insulation	Insulated DC output and AC input
MTBF	MTBF > 300Khrs

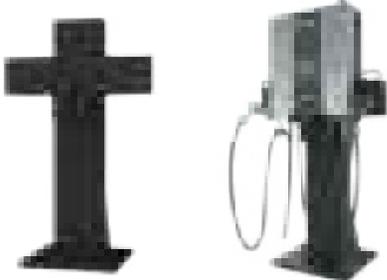
Regulation

Certificate	UL2202, IEC61851-1, IEC61851-23, IEC61851-21-2 Class B
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Accessories

Accessories	US/SAE Cable Hook	IEC/EURO Cable Hook	Pedestal for Multi-Charger	Pedestal
Photos				
Dimensions	72 x 55 x 172mm	98 x 62.5 x 274mm	308 x 271 x 1571mm	330 x 504 x 1425mm
Compatibility	SAE J1772	IEC 62196-2	AH/AW Series	AH Series

Accessories	Pedestal	Pedestal		
Photos				
Dimensions	330 x 210 x 1500mm	330 x 210 x 2250mm		
Compatibility	AW/AH Series	AW Series	AH Series	AX Series

Accessories	Pedestal (Lite)	Cable Management
Photos		
Dimensions	930 x 805 x 1665mm	1282X232X195
Compatibility	DW30 Series	DS180 Series / DS150 Series DS120 Series / DS60 Series

EV Charging Management Solution

Through the mobile app, users are able to search for charger locations, make charging reservations and monitor charging status. The Human Interface (HMI) provides interactive charging operations and supports various payment methods. The cloud-based backend system can monitor individual overall EV charger status. It also allows EV charger updates remotely which facilitate the long-term maintenance and management of the charger. The back-end system also supports data statistics and reports for administrators to conduct analyses.



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