2020-2021

EV CHARGING SOLUTION

PHIHONG

PHIHONG EV Chargers

World Class Quality, International Standard

CHAdeMO CHARIN

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.

EV202006E

Phihong Technology

With nearly 50 years of experience, Phihong is a leading global power supply manufacturer and recognized as a reputable brand by customers globally. Phihong strives to design innovative products while maintaining superior quality and safety standards.

With an eye toward the international trend of environmental protection and carbon reduction, Phihong has successfully developed a family of highly-efficient EV charging products: DC charging modules, auxiliary power, control & supervisor unit (CSU), discrete type DC chargers, integrated type DC chargers, moveable DC chargers, portable DC chargers and AC chargers and wall-mounted and post type AC chargers for EV buses and EV passenger cars.

OEM/ODM - DC Chargers/AC Chargers

Human Interface (HMI) & Mobile APP

Modules

OEM/ODM - Hardware/Software Solutions

Phihong EV charging software solution includes both the front end mobile APP and user interface (HMI) as well as the back end central office and cloud-based management, payment and monitoring platforms. Through the front end mobile APP, people can search for nearby chargers, make charging appointments, and monitor charging status. To facilitate long term maintenance and management, system operators can monitor the status of individual EV chargers and remotely update EV chargers. With strong R&D design capabilities and solid manufacturing experience, Phihong Technology provides high quality and cost effective hardware/software products based on specific customer needs.
Please contact us for more information:phsales@phihong.com.tw

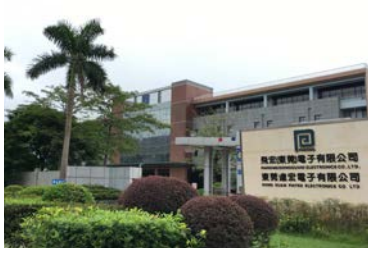
- OEM/ODM/Re-label business
- EV charger manufacturers
- System operators
- Electric vehicle manufacturers

Production Base

Phihong Vietnam

Mass production began in Q1 2020.

Phihong (DongGuan)



Dong Guan Phitek

Chin Sheng Hong (JiangXi)

In 1996, Phihong established the first overseas production base in Donguan City, the third largest computer production area in the world. The plant area covers 40,911 square meters and employs more than 4,000 people. In succession, Dong Guan Phitek Electronics Co., Ltd and Chin Sheng Hong (Jiangxi) Electronics Co., Ltd. were established. All production plants in China passed ISO9001 quality system certifications, ISO14001 environmental certifications and OHSAS18001 occupational safety and health systems.

In response to the economic turmoil caused by the Sino-American trade war in late 2018, the company launched the New Southbound Plan. The plan included construction of factories in Vietnam to avoid the risk of concentrating production in China, which would 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.

Certificate

With ISO 9001 and ISO 13485 quality management system 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, which can provide customers with assurance that Phihong provides high quality products and exceptional after sales service.

IATF 16949:2016

Manufacture of on board charger


Certificate of Approval

Dongguan Phitek Electronics Co., Ltd.

OCPP 1.6

Open Charge Point Protocol.

Integrated Product Service

Phihong Technology has successfully established a comprehensive operation model that integrates diverse products and services, including research and design, manufacturing, marketing, and services. Whether in public construction projects or implementing the island-wide charging station project in Taiwan, Phihong's corporate social responsibility covers green energy and environmental protection. In order to establish a more convenient charging environment, Phihong has also sought strategic partnerships with clients to leverage the company's years of experience in the EV industry to aggressively plan and build charging stations in construction projects across Taiwan so that vehicle owners have a comprehensive and dependable charging network.

Development & Design

- Power modules design 30kW~60kW
- 7kW~450kW 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 Type1 & 2, CCS, CHAdeMO, SAE J1772, GB/T charging interface

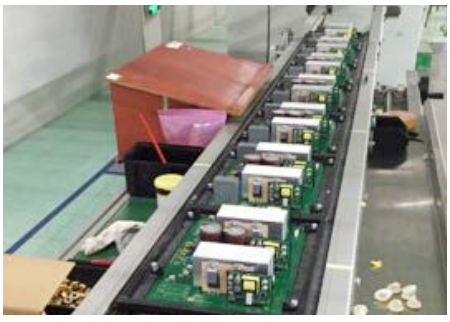
Production & Manufacturing

- Taiwan
- Dongguan China
- Vietnam
- IATF16949
- ISO 9001
- ISO 13485
- ISO 14001
- OHSAS 18001

Survey & Construction

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

Production and System Testing



Semi-finished Product Testing: Wave-Soldering Assembly



Semi-finished Products: Testing & Assembly

We Focus on

Growth Model

Copying Successful Business Models

Mission

Full Range of Power Solutions

Focus & Goal

The Global Leader of Power Energy Solution Provider

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

Charger - Assembly

DC Chargers: Assembly

AC Chargers: Assembly

Charger - Burn In

DC Charger Burn-in System

AC Charger Burn-in System

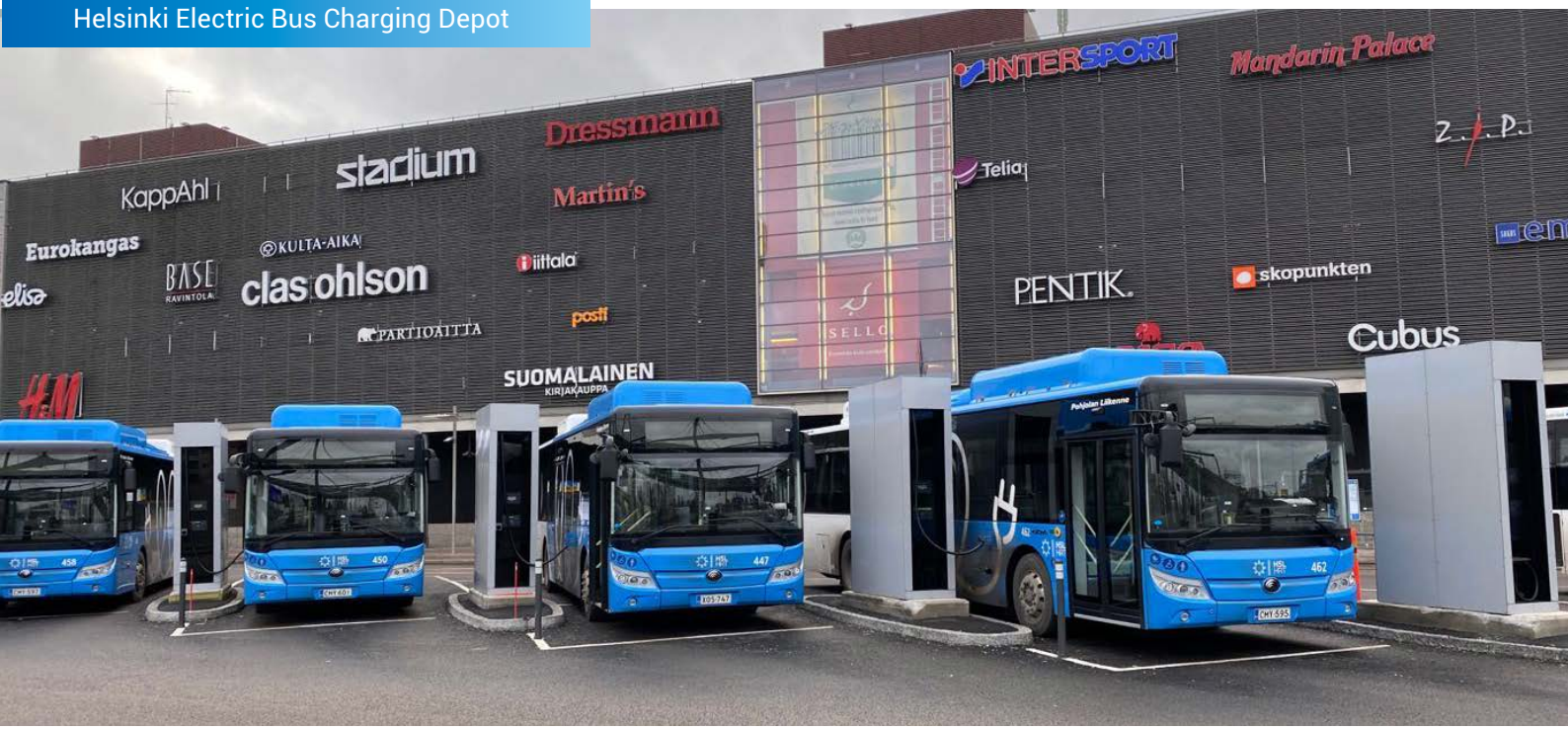
Power Module Burn-in System

Future Trend Outlook

Global urban populations are expanding. It is estimated that by 2050, 66% of the global population will be living in cities. In order to reduce increasing traffic congestion, governments of various nations are working with car manufacturers to implement smart services and ride-sharing by encouraging the use of electric vehicles. The global trend of reducing carbon emissions has also propelled the sales of EVs internationally, and in 2019 there was over 5 million EVs sold globally. There will be 10% market share for EVs in the total of all vehicles by 2030.

In 2013, Phihong Technology began its efforts on designing electric vehicle systems and charging solutions. Since then, Phihong has successfully developed a series of highly efficient EV charging solutions through globally renowned energy conversion technology. Today, Phihong is the leading charger supplier for Canada's electric buses. Additionally, Phihong has earned the acclamation of renowned car manufacturers and operators from China, Japan, the USA, and Europe.

Helsinki Electric Bus Charging Depot



EV Chargers

Complies with UL

AC Charger

16A Portable
EV AC Charger P.08

☑w/Wi-Fi ☑w/o Wi-Fi☑RFID

32A
EV AC Charger P.09

☑RFID

32A Wall Mount
EV AC Charger P.11

☑RFID

32A/63A Pedestal
EV AC Charger P.13

DC Charger

30kW Wall Mount
DC Fast Charger P.17

30kW Moveable
DC Fast Charger P.19

60kW Free Standing
DC Fast Charger P.21

90kW Free Standing
DC Fast Charger P.23

120kW Free Standing
DC Fast Charger P.25

150kW Free Standing
DC Fast Charger P.27

180kW Free Standing
DC Fast Charger P.29

360kW - Fan Cooling
System DC Charger P.31

180kW Power Rack
DC Fast Charger P.33

DC Modules

30kW EV DC
Charging Module P.35

Accessories

P.37

Software Solution

Front End System
Back End System P.39

AC Charger

- **Wall-Mounted**
- **Free Standing**
- **Portable**

AC series

Portable EV AC Charger

Features

- Mode 2-chargers can use a circuit ranging from 8Amp to 16Amp with a local standard AC input plug installed for operation
- Provides over current, 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

- Parking garage

AC Series			
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

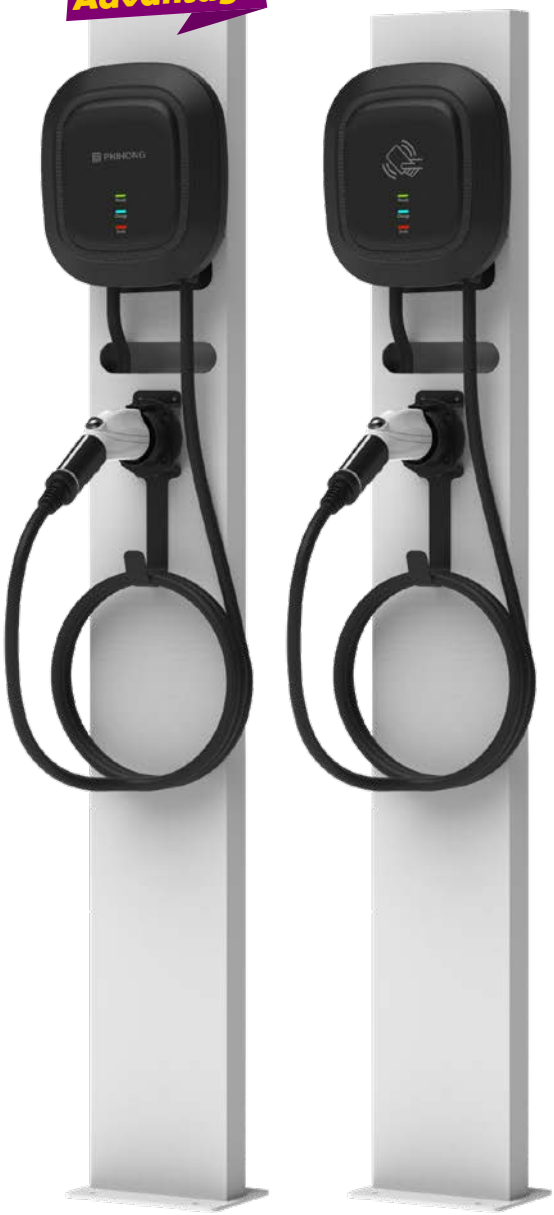
AW series

32A EV AC Charger

Price Advantage

Features

- Ideal choice for residential and commercial EV charging.
- Optional wired/wireless connection for back office management
- Optional RFID card reader for user identification and management
- Input: 200Vac~240Vac
- Stylish, 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

- Highway gas/service station
- Parking garage
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops

Accessory

Please refer to page 37 for accessory information.

- Stand

Model List

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

AW Series					
Model Name		AWSE770	AWLU770	AWSC770	AWSG770
Picture					
Power Specification					
AC Input	Input Rating	200~240Vac/Single phase			
	AC Input Connection	L/N/PE	L1/L2/GND	L/L1, N/L2, PE	L/N/PE
	Input Current	32A			
	Frequency	50Hz/60Hz			
AC Output	Output Current	32A			
User Interface & Control					
User Authentication		RFID (ISO/IEC 14443A/B, ISO/IEC 15693, FeliCa™, Mifare)			
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
Cooling Method		Natural Cooling			
Mechanical					
Dimension(WxDxH)		260x100x280mm			
Weight		≦ 4Kg (With Plug)			
Cable Length		5m			
Protection					
RCD/CCID		RCD Type B	CCID 20	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 15511-1, CNS 15511-2, CNS 15511-3, CNS 15511-22	GB/T 18487.1/.2, GB/T 20234.1/.2, GB/T 33594, GB/T 34657.1
Safety		CE/CB	UL/cUL	CNS	CQC
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

AH series

32A Wall Mount EV AC Charger

Features

- Ideal choice for residential and commercial EV charging
- Input: 200Vac~240Vac
- Stylish, ergonomic and customizable design
- IP55 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: SAE J1772 (Type 1)/IEC 62196-2 (Type 2)
- OCPP 1.6 JSON

Applications

- Highway gas/service station
- Parking garage
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops

Accessory

Please refer to page 37 for accessory information.

- Stand

AH Series				
Model Name		EA702C0E/EA702C1E	EA702C1U	EA702C1
Picture				
Power Specification				
AC Input	Input Rating	200~240Vac/Single phase		
	AC Input Connection	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)/4G(optional) or Wi-Fi(optional)		
Internal		OCPP 1.6 JSON		
Environmental				
Operating Temperature		-30˚C~50˚C		
Humidity		Max. 90% RH		
Altitude		≦ 2000m		
IP Level		IP55	NEMA TYPE 3R	IP55
Cooling Method		Natural Cooling		
Mechanical				
Dimension(WxDxH)		290 x 120 x 410mm		
Weight		≦ 8Kg (With Plug) ; ≦ 5.5Kg (With Socket)		
Cable Length		5m		
Protection				
RCD/CCID		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	UL2594, UL2231-1/-2	CNS 15511-1, CNS 15511-2 CNS 15511-3,CNS 15511-22
Safety		CE	UL/cUL	CNS
Charging Interface		IEC 62196-2 Type 2 Plug or socket	SAEJ1772 Type 1 Plug	SAEJ1772 Type 1 Plug

AP series

32A/63A Pedestal EV AC Charger

CE

Features

- Ideal choices for residential and commercial EV charging
- Stylish, ergonomic and customizable design
- 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

- Highway gas/service station
- Parking garage
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops

AP Series				
Model Name		EA443E3E	EA443E2E	EA873E3E
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) or Wi-Fi(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		
Safety		CB, CE		
Charging Interface		IEC 62196-2 Type 2 Plug	IEC 62196-2 Type 2 Socket	IEC 62196-2 Type 2 Plug

Sales Performance

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

DoubleTree by Hilton Hotel in Pomona, California

Sheraton Grand Los Angeles

* Please contact PHIHONG for details about CCS/ SAE/ CHAdeMO compliance.

DC Chargers

- **Wall-Mounted**
- **Moveable**
- **Free Standing**
- **Power Rack**
- **DC Charging Modules**

DW series

30kW Wall Mount DC Fast Charger

Features

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

Applications

- Highway gas/service station
- Parking garage
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops

Accessory

Please refer to page 37 for accessory information.

- Stand

DW Series			
Model Name		CE, DW 30 Series	UL, DW 30 Series
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	3Φ60A(Typ.±1%)	3Φ40A(Typ.±1%)
	Frequency	50Hz/60Hz	
	Power Factor	>0.99 @ full load	
	Efficiency	≧94%	
DC Output	Output Voltage Range	CHAdeMO:150~500Vdc / CCS:150~950Vdc / GBT:150~750Vdc	
	Max. Output Current	CHAdeMO/CCS/GBT:60A@500Vdc CCS:31.5A@950Vdc / GBT:40A@750Vdc	
	Max. Output Power	30kW	
	Voltage Accuracy	±2%	
	Current Accuracy	±2%	
User Interface & Control			
Display		7" LCD	
Push Buttons		Operation buttons	
User Authentication		RFID: support ISO 14443A/B, ISO 15693, FeliCa Lite-S (RCS966) OCPP, 2D barcode, APP, Mobile payment	
Communication			
External		Ethernet/4G/Wi-Fi	
Internal		CAN bus/RS485	
Environmental			
Operating Temperature		-30° C~50° C, power derating from 50° C and above	
Humidity		5%~95% RH, non-condensing	
Altitude		≦2000m	
IP/IK Level		IP55/IK10 (not including screen and RFID module)	
Cooling Method		Fan cooling	
Mechanical			
Cabinet Dimension(W x D x H)		610 x 230 x 690mm±1%	
Weight		Single plug: ≦80kg ±1%/Dual plugs: ≦88kg ±1%	
Cable Length		4m	
Protection			
Input Protection		OVP, OCP, OPP, OTP, UVP, RCD, SPD	
Output Protection		OCP, OVP, UVP, OTP, IMD	
Regulation			
Certificate		IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL 2231-1/-2
Safety (Not including GB)		CB, CE	NRTL - cETLus
Charging Interface		CHAdeMO V1.2, DIN 70121, GB/T 27930, (ISO15118:2020/Q4)	

DM series

30kW Moveable DC Fast Charger

Features

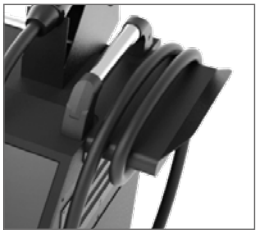
- Multi-standard: CCS, CHAdeMO and GB/T
- Network or standalone operation
- User authentication
- Support smart charging and load balancing
- Efficiency > 94%
- PF > 0.99(APFC)
- 7 inches LCD screen with user friendly interface
- OCPP 1.6 JSON
- IK10(Not including screen and RFID module), IP55
- Customization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

Applications

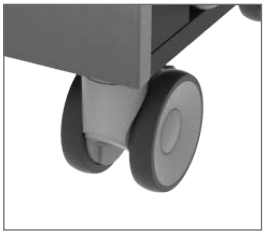
- Parking garage
- Commercial fleet operators
- EV dealer workshops

Accessory

Please refer to page 37 for accessory information.



• Cable hook



EU wheel

US wheel

DM Series			
Model Name		CE, DM 30 Series	UL, DM 30 Series
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	3Φ60A(Typ.±1%)	3Φ40A(Typ.±1%)
	Frequency	50Hz/60Hz	
	Power Factor	> 0.99 @ full load	
	Efficiency	≥ 94%	
DC Output	Output Voltage Range	CHAdeMO:150~500Vdc CCS:150~950Vdc / GBT:150~750Vdc	
	Max. Output Current	CHAdeMO/CCS/GBT:60A@500Vdc CCS:31.5A@950Vdc / GBT:40A@750Vdc	
	Max. Output Power	30kW	
	Voltage Accuracy	±2%	
	Current Accuracy	±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/4G/Wi-Fi	
Internal		CAN bus/RS485	
Environmental			
Operating Temperature		-30˚C~50˚C, power derating from 50˚C and above	
Humidity		5%~95% RH, non-condensing	
Altitude		≦2000m	
IP/IK Level		IP55/IK10 (not including screen and RFID module)	
Cooling Method		Fan cooling	
Mechanical			
Cabinet Dimension(W x D x H)		589 x 490 x 740 mm±1%	
Weight		≦80kg ±1%	
Cable Length		3m	
Protection			
Input Protection		OVP, OCP, OPP, OTP, UVP, RCD, SPD	
Output Protection		OCP, OVP, UVP, OTP, IMD	
Regulation			
Certificate		IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL 2231-1/-2
Safety (Not including GB)		CB, CE	NRTL - cETLus
Charging Interface		CHAdeMO V1.2, DIN 70121, GB/T 27930, (ISO15118:2020/Q4)	

DS series

60kW Free Standing DC Fast Charger

Features

- Simultaneously 2 DC and 1 AC charging (AC will be available in 2020/Q4)
- Multi-standard: CCS, CHAdeMO and GB/T
- Network or standalone operation
- User authentication
- Optional cable management accessories
- Support smart charging and load balancing
- Efficiency > 94% ; PF > 0.99(APFC)
- 7 inches LCD screen with user friendly interface
- OCPP 1.6 JSON
- IK10(Not including screen and RFID module), IP55
- Customization available

Applications

- Highway gas/service station
- Parking garage
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops

Accessory

Please refer to page 37 for accessory information.

- Cable Management

Simultaneously 2 DC and 1 AC charging
(AC will be available in 2020/Q4)

DS Series			
Model Name		CE, DS 60 Series	UL, DS 60 Series
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:3Φ110A(Typ.±1%) AC module(43kW):3Φ63A(±1%) or AC module(22kW):3Φ32A(±1%)	DC System:3Φ100A(Typ.±1%) AC module(19.2kW):1Φ80A(±1%)
	Frequency	50Hz/60Hz	
	Power Factor	>0.99 @ full load	
	Efficiency	≥94%	
DC Output	Output Voltage Range	CCS2:150~950Vdc CHAdeMO:150~500Vdc GBT:150~750Vdc AC:3Φ_380~415Vac (±15%)	CCS1:150~950Vdc CHAdeMO:150~500Vdc AC:1Φ_240Vac (+10%, -15%)
	Max. Output Current	CCS2:63A@950Vdc , GBT:80A@750Vdc CHAdeMO/CCS2/GBT:120A@500Vdc AC(43kW):3Φ63A@230Vac or AC(22kW): 3Φ32A@230Vac	CCS1:63A@950Vdc CHAdeMO/CCS1:120A@500Vdc AC(19.2kW):1Φ80A@240Vac
	Max. Output Power	DC System:60kW + AC module:3-phase 43kW or 22kW	DC System:60kW + AC module:Single Phase 19.2kW
	Voltage Accuracy	±2%	
	Current Accuracy	±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/4G/Wi-Fi	
Internal		CAN bus/RS485	
Environmental			
Operating Temperature		-30˚C~50˚C, power derating from 50˚C and above	
Humidity		5%~95% RH, non-condensing	
Altitude		≦ 2000m	
IP/IK Level		IP55/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±1%	
Weight		≦ 235kg±1%	
Cable Length		4m	4m
Protection			
Input Protection		OVP, OCP, OPP, OTP, UVP, RCD, SPD	
Output Protection		OCP, OVP, UVP, OTP, IMD	
Regulation			
Certificate		IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL 2231-1/-2
Safety		CB, CE	NRTL - cETLus
Charging Interface		CHAdeMO V1.2, DIN 70121, GB/T 27930, (ISO15118:2020/Q4)	

DS series

90kW Free Standing DC Fast Charger

Features

- Simultaneously 2 DC and 1 AC charging (AC will be available in 2020/Q4)
- Multi-standard: CCS, CHAdeMO and GB/T
- Network or standalone operation
- User authentication
- Optional cable management accessories
- Support smart charging and load balancing
- Efficiency > 94% ; PF > 0.99(APFC)
- 7 inches LCD screen with user friendly interface
- OCPP 1.6 JSON
- IK10(Not including screen and RFID module), IP55
- Customization available

Applications

- Highway gas/service station
- Parking garage
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops

Accessory

Please refer to page 37 for accessory information.

- Cable Management

Simultaneously 2 DC and 1 AC charging
(AC will be available in 2020/Q4)

DS Series			
Model Name		CE, DS 90 Series	UL, DS 90 Series
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:3Φ170A(Typ.±1%) AC module(43kW):3Φ63A(±1%) or AC module(22kW):3Φ32A(±1%)	DC System:3Φ135A(Typ.±1%) AC module(19.2kW):1Φ80A(±1%)
	Frequency	50Hz/60Hz	
	Power Factor	>0.99 @ full load	
	Efficiency	≥94%	
DC Output	Output Voltage Range	CCS2:150~950Vdc GBT: 150~750Vdc CHAdeMO:150~500Vdc AC:3Φ_380~415Vac (±15%)	CCS1:150~950Vdc CHAdeMO:150~500Vdc AC:1Φ_240Vac (+10%, -15%)
	Max. Output Current	CCS2:95A@950Vdc, GBT:120A@750Vdc CHAdeMO:120A@500Vdc AC(43kW):3Φ63A@230Vac or AC(22kW):3Φ32A@230Vac	CCS1:95A@950Vdc CHAdeMO:120A@500Vdc AC(19.2kW):1Φ80A@240Vac
	Max. Output Power	DC System:90kW + AC module:3 Phase 43kW or 22kW	DC System:90kW + AC module:Single Phase 19.2kW
	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/4G/Wi-Fi	
Internal		CAN bus/RS485	
Environmental			
Operating Temperature		-30˚C~50˚C, power derating from 50˚C and above	
Humidity		5%~95% RH, non-condensing	
Altitude		≦ 2000m	
IP/IK Level		IP55/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	
Output Protection		OCP, OVP, UVP, OTP, IMD	
Regulation			
Certificate		IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL 2231-1/-2
Safety		CB, CE	NRTL - cETLus
Charging Interface		CHAdeMO V1.2, DIN 70121, GB/T 20234.3, (ISO15118:2020/Q4)	

DS series

120kW Free Standing DC Fast Charger

Features

- Simultaneously 2 DC and 1 AC charging (AC will be available in 2020/Q4)
- Multi-standard: CCS, CHAdeMO and GB/T
- Network or standalone operation
- User authentication
- Optional cable management accessories
- Support smart charging and load balancing
- Efficiency > 94% ; PF > 0.99(APFC)
- 7 inches LCD screen with user friendly interface
- OCPP 1.6 JSON
- IK10(Not including screen and RFID module), IP55
- Customization available

Applications

- Highway gas/service station
- Parking garage
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops

Accessory

Please refer to page 37 for accessory information.

- Cable Management

Simultaneously 2 DC and 1 AC charging
(AC will be available in 2020/Q4)

DS Series			
Model Name		CE, DS 120 Series	UL, DS 120 Series
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:3Φ220A(Typ.±1%) AC module(43kW):3Φ63A(±1%) or AC module(22kW):3Φ32A(±1%)	DC System:3Φ180A(Typ.±1%) AC module(19.2kW):1Φ80A(±1%)
	Frequency	50Hz/60Hz	
	Power Factor	>0.99 @ full load	
	Efficiency	≥94%	
DC Output	Output Voltage Range	CCS2:150~950Vdc GBT: 150~750Vdc CHAdeMO:150~500Vdc AC:3Φ_380~415Vac (±15%)	CCS1:150~950Vdc CHAdeMO:150~500Vdc AC:1Φ_240Vac (+10%, -15%)
	Max. Output Current	CCS2:126A@950Vdc GBT:160A@750Vdc CHAdeMO:120A@500Vdc AC(43kW):3Φ63A@230Vac or AC(22kW):3Φ32A@230Vac	CCS1:126A@950Vdc CHAdeMO:120A@500Vdc AC(19.2kW):1Φ80A@240Vac
	Max. Output Power	DC System:120kW + AC module:3 Phase 43kW or 22kW	DC System:120kW + AC module:Single Phase 19.2kW
	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/4G/Wi-Fi	
Internal		CAN bus/RS485	
Environmental			
Operating Temperature		-30˚C~50˚C, power derating from 50˚C and above	
Humidity		5%~95% RH, non-condensing	
Altitude		≦ 2000m	
IP/IK Level		IP55/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		≦ 420kg ±1%	
Cable Length		4m	4m
Protection			
Input Protection		OVP, OCP, OPP, OTP, UVP, RCD, SPD	
Output Protection		OCP, OVP, UVP, OTP, IMD	
Regulation			
Certificate		IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL 2231-1/-2
Safety		CB, CE	NRTL - cETLus
Charging Interface		CHAdeMO V1.2, DIN 70121, GB/T 20234.3, (ISO15118:2020/Q4)	

DS series

150kW Free Standing DC Fast Charger

Features

- Simultaneously 2 DC and 1 AC charging (AC will be available in 2020/Q4)
- Multi-standard: CCS, CHAdeMO and GB/T
- Network or standalone operation
- User authentication
- Optional cable management accessories
- Support smart charging and load balancing
- Efficiency > 94% ; PF > 0.99(APFC)
- 7 inches LCD screen with user friendly interface
- OCPP 1.6 JSON
- IK10(Not including screen and RFID module), IP55
- Customization available

Applications

- Highway gas/service station
- Parking garage
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops

Accessory

Please refer to page 37 for accessory information.

- Cable Management

Simultaneously 2 DC and 1 AC charging
(AC will be available in 2020/Q4)

DS Series			
Model Name		CE, DS 150 Series	UL, DS 150 Series
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:3Φ270A(Typ.±1%) AC module(43kW):3Φ63A(±1%) or AC module(22kW):3Φ32A(±1%)	DC System:3Φ226A(Typ.±1%) AC module(19.2kW):1Φ80A(±1%)
	Frequency	50Hz/60Hz	
	Power Factor	>0.99 @ full load	
	Efficiency	≥94%	
DC Output	Output Voltage Range	CCS2:150~950Vdc GBT: 150~750Vdc CHAdeMO:150~500Vdc AC:3Φ_380~415Vac (±15%)	CCS1:150~950Vdc CHAdeMO:150~500Vdc AC:1Φ_240Vac (+10%, -15%)
	Max. Output Current	CCS2:158A@950Vdc GBT:200A@750Vdc CHAdeMO:120A@500Vdc AC(43kW):3Φ63A@230Vac or AC(22kW):3Φ32A@230Vac	CCS1:158A@950Vdc CHAdeMO:120A@500Vdc AC(19.2kW):1Φ80A@240Vac
	Max. Output Power	DC System:150kW + AC module:3-phase 43kW or 22kW	DC System:150kW + AC module:Single Phase 19.2kW
	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/4G/Wi-Fi	
Internal		CAN bus/RS485	
Environmental			
Operating Temperature		-30˚C~50˚C, power derating from 50˚C and above	
Humidity		5%~95% RH, non-condensing	
Altitude		≦ 2000m	
IP/IK Level		IP55/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		≦ 460kg ±1%	
Cable Length		4m	4m
Protection			
Input Protection		OVP, OCP, OPP, OTP, UVP, RCD, SPD	
Output Protection		OCP, OVP, UVP, OTP, IMD	
Regulation			
Certificate		IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL 2231-1/-2
Safety		CB, CE	NRTL - cETLus
Charging Interface		CHAdeMO V1.2, DIN 70121, GB/T 20234.3, (ISO15118:2020/Q4)	

DS series

180kW Free Standing DC Fast Charger

Features

- Simultaneously 2 DC and 1 AC charging (AC will be available in 2020/Q4)
- Multi-standard: CCS, CHAdeMO and GB/T
- Network or standalone operation
- User authentication
- Optional cable management accessories
- Support smart charging and load balancing
- Efficiency > 94% ; PF > 0.99(APFC)
- 7 inches LCD screen with user friendly interface
- OCPP 1.6 JSON
- IK10(Not including screen and RFID module), IP55
- Customization available

Applications

- Highway gas/service station
- Parking garage
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops

Accessory

Please refer to page 37 for accessory information.

- Cable Management

Simultaneously 2 DC and 1 AC charging
(AC will be available in 2020/Q4)

DS Series			
Model Name		CE, DS 180 Series	UL, DS 180 Series
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:3Φ330A(Typ.±1%) AC module(43kW):3Φ63A(±1%) or AC module(22kW):3Φ32A(±1%)	DC System:3Φ270A(Typ.±1%) AC module(19.2kW):1Φ80A(±1%)
	Frequency	50Hz/60Hz	
	Power Factor	>0.99 @ full load	
	Efficiency	≥94%	
DC Output	Output Voltage Range	CCS2:150~950Vdc GBT: 150~750Vdc CHAdeMO:150~500Vdc AC:3Φ_380~415Vac (±15%)	CCS1:150~950Vdc CHAdeMO:150~500Vdc AC:1Φ_240Vac (+10%, -15%)
	Max. Output Current	CCS2:190A@950Vdc GBT:240A@750Vdc CHAdeMO:120A@500Vdc AC(43kW):3Φ63A@230Vac or AC(22kW):3Φ32A@230Vac	CCS1:190A@950Vdc CHAdeMO:120A@500Vdc AC(19.2kW):1Φ80A@240Vac
	Max. Output Power	DC System:180kW + AC module:3-phase 43kW or 22kW	DC System:180kW + AC module:Single Phase 19.2kW
	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/4G/Wi-Fi	
Internal		CAN bus/RS485	
Environmental			
Operating Temperature		-30˚C~50˚C, power derating from 50˚C and above	
Humidity		5%~95% RH, non-condensing	
Altitude		≦ 2000m	
IP/IK Level		IP55/IK10 (not including screen and RFID module)	
Cooling Method		Fan cooling	
Mechanical			
Cabinet Dimension(W x D x H)		800 x 650 x 1900 mm ±1%	
Weight		≦ 500kg ±1%	
Cable Length		4m	4m
Protection			
Input Protection		OVP, OCP, OPP, OTP, UVP, RCD, SPD	
Output Protection		OCP, OVP, UVP, OTP, IMD	
Regulation			
Certificate		IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL 2231-1/-2
Safety		CB, CE	NRTL - cETLus
Charging Interface		CHAdeMO V1.2, DIN 70121, GB/T 20234.3, (ISO15118:2020/Q4)	

DO series

360kW - Fan Cooling System DC Charger

Features

- Simultaneously 4 DC charging, up to 360KW per output with liquid-cooled connector
- Power cabinet supports Pantograph Charging
- Multi-standard: CCS, CHAdeMO and GB/T
- Network or standalone operation
- User authentication
- Support smart charging and load balancing
- Customization available

Applications

- EV bus station
- Highway gas/service station
- Parking garage
- EV dealer workshops
- Commercial fleet operators
- EV infrastructure operators/service providers

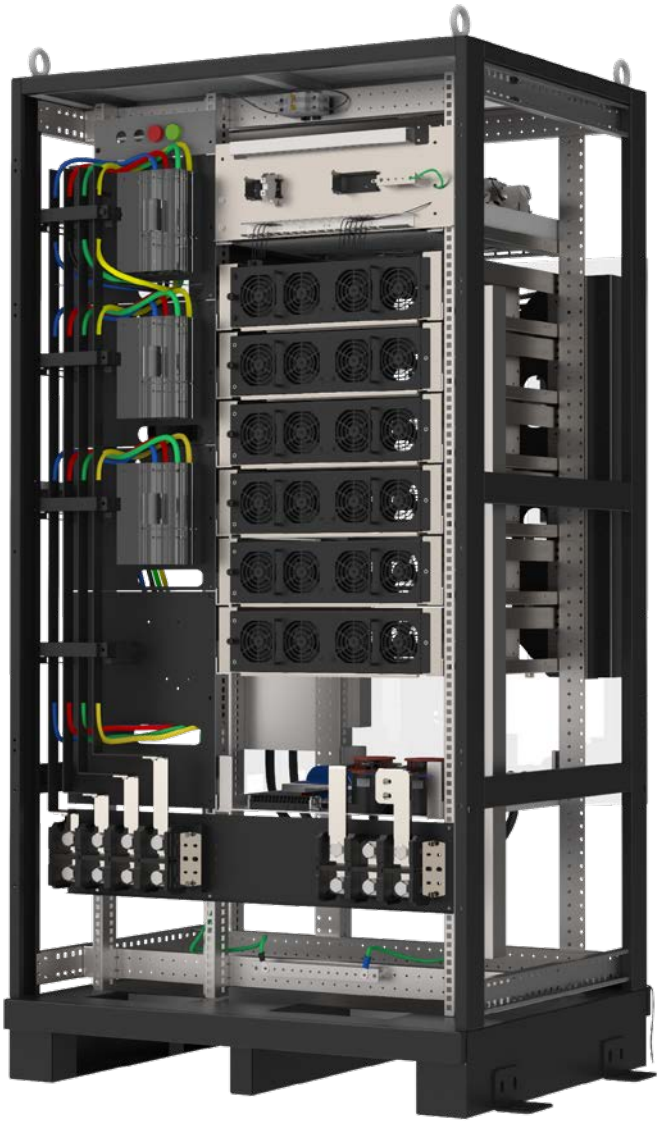
DO Series			
Model Name		CE, DO 360 Series	UL, DO 360 Series
Picture			
Power Specification			
AC Input	Input Rating	3Φ_380~415Vac (±15%)	3Φ_480Vac (+10%, -15%)
	AC Input Connection	3P+N+PE (Wye configuration), TN/TT/IT	3P+N+PE (Wye configuration), TN/TT
	Max. Input Current	396kVA	
	Frequency	50Hz/60Hz	
	Power Factor	>0.99 @ (APFC)	
	Efficiency	>94% at nominal output power	
DC Output	Output Voltage Range	CCS :150~950Vdc / GBT: 150~750Vdc / CHAdeMO: 150~500Vdc	
	Max. Output Current	Single Liquid-cooled plug:500A@720V, 380A@950V Single Regular plug: 250A@720V, 200A@900V CHAdeMO: 125A@500V	
	Max. Output Power	360kW	
	Voltage Accuracy	±2%	
	Current Accuracy	±2%	
User Interface & Control			
Display		7" TF T-LCD	
Push Buttons		Operation buttons/ Emergency stop button	
User Authentication		RFID ISO14443A (M1/MIFARE Card)	
Display Information		RFID: support ISO 14443A/B, ISO 15693, FeliCa Lite-S (RCS966) OCPP, 2D barcode, APP, Mobile payment	
Communication			
External		Ethernet/4G/Wi-Fi	
Internal		CAN bus/RS485	
Environmental			
Operating Temperature		-30˚C~50˚C, power derating from 50 and above	
Humidity		5%~95% RH, non-condensing	
Altitude		≦ 2000m	
IP/IK Level		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 (main cabinet), 700 x 550 x 1800mm (sub cabinet)	
Weight		≦ 1000Kg	
Cable Length		4m	
Protection			
Input Protection		OVP, OCP, OPP, OTP, UVP, RCD, SPD	
Output Protection		OCP, OVP, UVP, OTP, IMD	
Regulation			
Compliance		IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL 2231-1/-2
Safety		TBD	
Charging Interface		CHAdeMO V1.2, DIN 70121, GB/T 20234.3, (ISO15118:2020/Q4)	

DR series

180kW Power Rack DC Fast Charger

Features

- Simultaneously 2 DC Charging
- Multi-standard: CCS, CHAdeMO and GB/T
- Network or standalone operation
- Support smart charging and load balancing
- Efficiency > 94% ; PF > 0.99(APFC)
- OCPP 1.6 JSON
- Customization available



Applications

- Highway gas/service station
- Parking garage
- Commercial fleet operators
- EV infrastructure operators and service providers
- EV dealer workshops

- Acrylic board for electrical shock proof

DR Series			
Model Name		CE, DR 180 Power Rack	UL, DR 180 Power Rack
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:3Φ330A(Typ.±1%)	DC System:3Φ270A(Typ.±1%)
	Frequency	50Hz/60Hz	
	Power Factor	>0.99 @ full load	
	Efficiency	≥94%	
DC Output	Output Voltage Range	CCS2:150~950Vdc GBT: 150~750Vdc CHAdeMO:150~500Vdc	
	Max. Output Current	CCS2:190A@950Vdc GBT:240A@750Vdc CHAdeMO:120A@500Vdc	
	Max. Output Power	180kW	
	Voltage Accuracy	±2%	
	Current Accuracy	±2%	
Communication			
External		Ethernet/4G/Wi-Fi	
Internal		CAN bus/RS485	
Environmental			
Operating Temperature		-30˚C~50˚C, power 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	
Output Protection		OCP, OVP, UVP, OTP, IMD	
Regulation			
Certificate of Compliance		IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL 2231-1/-2
Safety		TBD	TBD
Charging Interface		CHAdeMO V1.2, DIN 70121, GB/T 20234.3, (ISO15118:2020/Q4)	

30kW
EV DC Charging Module

Complies with UL

Features

- 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
- Comply 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.

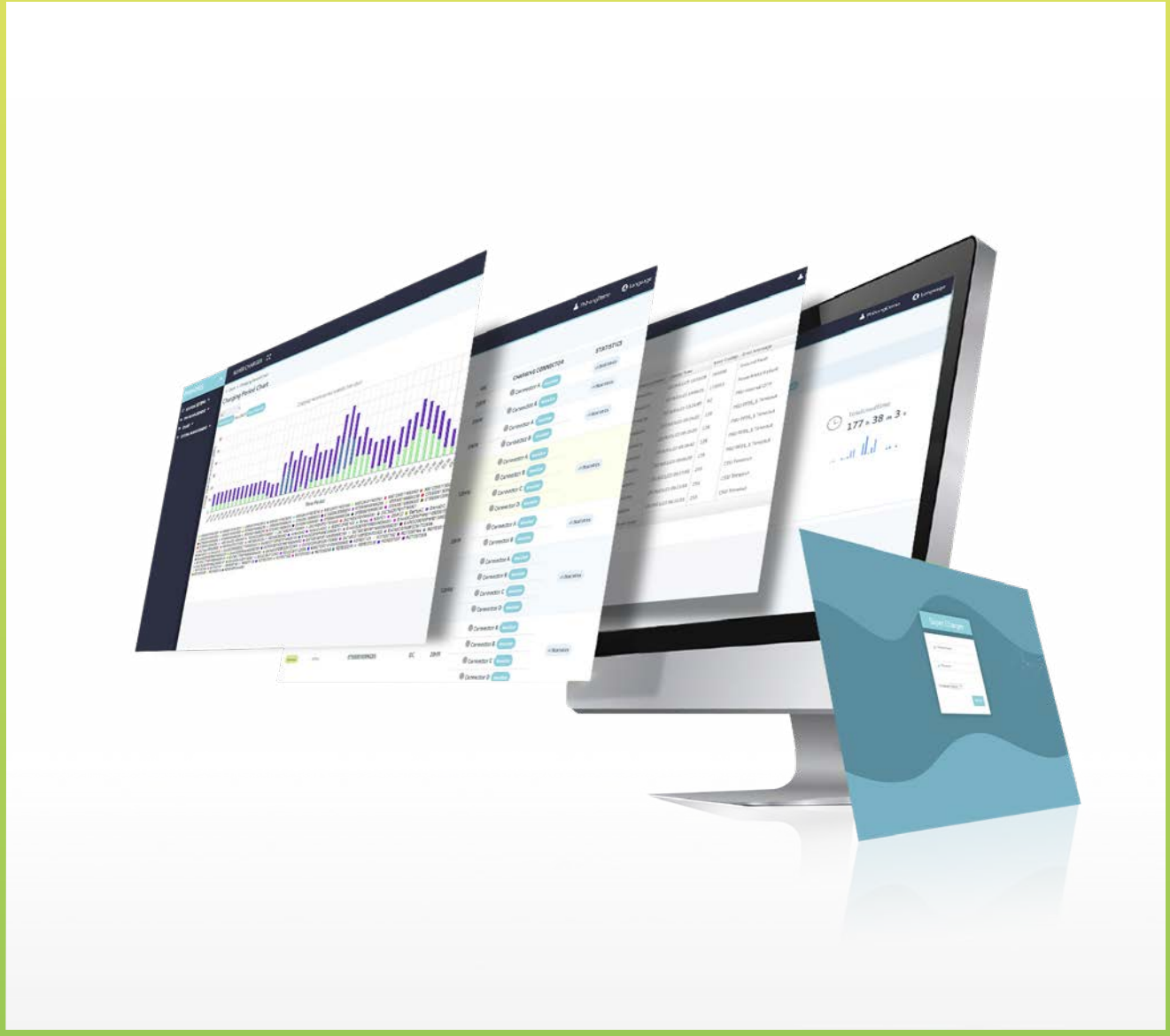
30kW DC Charging Module		
Model Name		G-1K0100
Picture		
Power Specification		
AC Input	Input Rating	260~530Vac
	AC Input Connection	3L + PE
	Max. Input Current	60A
	Frequency	45~65Hz
	Power Factor	> 0.99
	Efficiency	≥ 95% @1000Vdc/50%~100% load current, max. point ≥ 95.5%
	Standby Power	< 10W
DC Output	Output Voltage Range	150~1000Vdc
	Max. Output Current	0~100A
	Max. Output Power	30kW
Communication		
Internal		CAN bus, Max. 48 Power modules in parallel
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
Safety		CE, NRTL - cTUVus (Complies with UL)

Accessories

Accessories	Stand (Lite) (P/N KITPSDWPH01-RW)	Cable Hook (P/N KITHSDMPH01-RW)	Cable Management (P/N KITCSDSPH01-RW)
Photos			
Dimensions	930 x 805 x 1665mm	295 x 210 x 90mm	1122 x 212 x 122mm
Compatibility	DW30 Series	DM30 Series	DS180 Series / DS150 Series DS120 Series / DS60 Series

Accessories	Stand for Multi-Charger (AH) (P/N KITPMAHPH01-RW)	Stand (AH) (P/N KIT702C1TF8P1-RW)	Stand (AW) (P/N KITPSAWPH01-RW)
Photos			
Dimensions	308 x 271 x 1571mm	330 x 504 x 1425mm	220 x 150 x 1500mm
Compatibility	AH/AW Series	AH Series	AW/AH Series

Accessories	US/SAE Cable Hook (P/N KITHUAWPH01-RW)	IEC/EURO Cable Hook (P/N KITHEAWPH01-RW)
Photos		
Dimensions	72 x 55 x 172mm	98 x 62.5 x 274mm
Compatibility	SAE J1772	IEC 62196-2



EV Charging Management Solution

- **Front End System**
- **Back End System**

EV Charging Management Solution

Through mobile app, users can search for charger locations, make charging reservations and monitor charging status. The Human Interface (HMI) provides interactive charging operations and support 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 do analysis.

Cloud

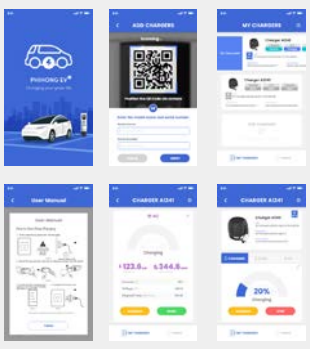
Front End System

Human Interface (HMI)

- Display of Charging Status
- Display of Battery SOC
- Remote Program Update

Mobile APP

- Charging Appointment
- Search and Navigation to Chargers
- Monitoring of Charging Status



Back End System

Charging Station Operation

- Maintenance / Post-sale Service
- Security & Surveillance
- Parking Management

Payment System Interface

- Charging Information for Payment

Charging Data

- Charging Data Acquisition and Analysis
- Software Update

Company Location

Headquarters Phihong Technology Co., Ltd

No.568, Fuxing 3rd Rd., Gueishan Dist., Taoyuan City (33383), Taiwan
Tel : +886-3-3277288
Fax : +886-3-3277622
phsales@phihong.com.tw
www.phihong.com.tw

Phihong Technology Co. Ltd. (Tainan R&D Center)

No. 99, Zhengnan 1st. Street, Yongkang Dist., Tainan City 71046, Taiwan
Tel : +886-6-254-7588
Fax : +886-6-254-7288
phsales@phihong.com.tw
www.phihong.com.tw

Phihong China

Science & Technology Rd., Silver Lake Industrial Area Qingxi Town, Dong Guan City, Guang Dong (523648), China
Tel : +86-769-87319026
Fax : +86-769-87317106
phsales@phihong.com.tw

Phihong USA

47800 Fremont Blvd., Fremont, CA 94538, U.S.A.
Tel : +1-510-445-0100
Fax : +1-510-445-1678
usasales@phihongusa.com
www.phihong.com

Phihong Japan

5F, VORT Toyo Bldg., 3-23-24, Toyo, Koto-ku, Tokyo, 135-0016, Japan
Tel : +81-3-5677-1678
Fax : +81-3-5634-5255
phsales@phihong.com.tw
www.phihong.co.jp

Phihong Europe (United Kingdom/Germany/France)

Wattstraat 50, 2171 TR Sassenheim, The Netherlands
Tel : +31-(0)-252-225910
Fax : +31-(0)-252-218764
sales@phihongeu.com
www.phihong.com.tw

Phihong Vietnam

Lot CN5 An Duong Industrial Zone, Hong Phong Commune, An Duong County, Hai Phong City, Vietnam
Tel : +84-22588-31557

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www.phihong.com.tw