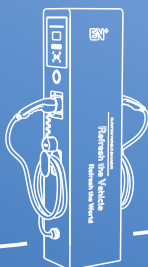




Shenzhen EN-plus Technologies Co., Ltd.

INTELLIGENT EV SYSTEM CHARGING



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Company Introduction

Shenzhen EN-plus Technologies Co., Ltd. is one technique innovative company dedicated to EV charging industry, with its headquarter located in Shenzhen, China.

Through continuous technical innovation and marketing accumulation, EN+ has grown to be a professional supplier for EV charging facility and solutions, capable of independent development from product design to product delivery.

In contrast with many competitors, we've been stressing sustainable R&D capability. Our product line covers the portable charger, AC charger, DC charger, EN-GATE (gateway) and software platform equipped with OCPP protocol, providing smart charging service for both hardware and software.



AC Single-phase 3KW Portable Charger

Portable and Convenient

Simple and portable.

Charge your EV wherever and whenever.

Plug and Play

Easy operation, plug and play.

Charging EV just like charging your mobile phone

Friendly Interface

Intuitive HMI with LED indicators.

Bevel edge design for easy rolling of cables.

Robust and Durable

Anti-corrosion and weather proof.

IP65 protection grade for outdoor use stably.

Safe and Reliable

Current leakage protection to ensure safety.

Overtemperature protection to secure reliability.



AC Single-phase 3KW Portable Charger

Specification	Model	AC3500-DE-00
AC Nominal Input	Phases / Lines	1 phase + neutral + PE
	Voltage	230 V \pm 10%
	Frequency	50Hz
AC Nominal Output	Voltage	230 V \pm 10%
	Current	13A
	Power	3KW
Structure Design	Housing Material	Plastic PC940
	LED Indicator	4 indicators
	Power Cord Plug	Schuko
	Charging Outlet	One charging gun (Type 2)
	Cable Length	4M
Environmental Index	Operating Temperature	-30~+50°C
	Working Humidity	5%~95% without condensation
	Working Altitude	<2000M
	Protection Grade	IP65
	Application Site	Indoor/Outdoor
	Cooling Method	Natural cooling
Security Protection	Multiple Protection	Over/Under voltage protection, Over/Under frequency protection, Over/Under temperature protection, Over current protection, Current leakage protection, Grounding protection
	MTBF	100,000 hours
	Safety Standard	IEC 61851-1: 2017, IEC 62196-2: 2016
	Warranty	2 years
Package Information	Product Dimension	195*74*47MM
	Package Demension	360*295*155MM
	Net Weight	1.5KG
	Gross Weight	2.4KG
	External Packing	Carton



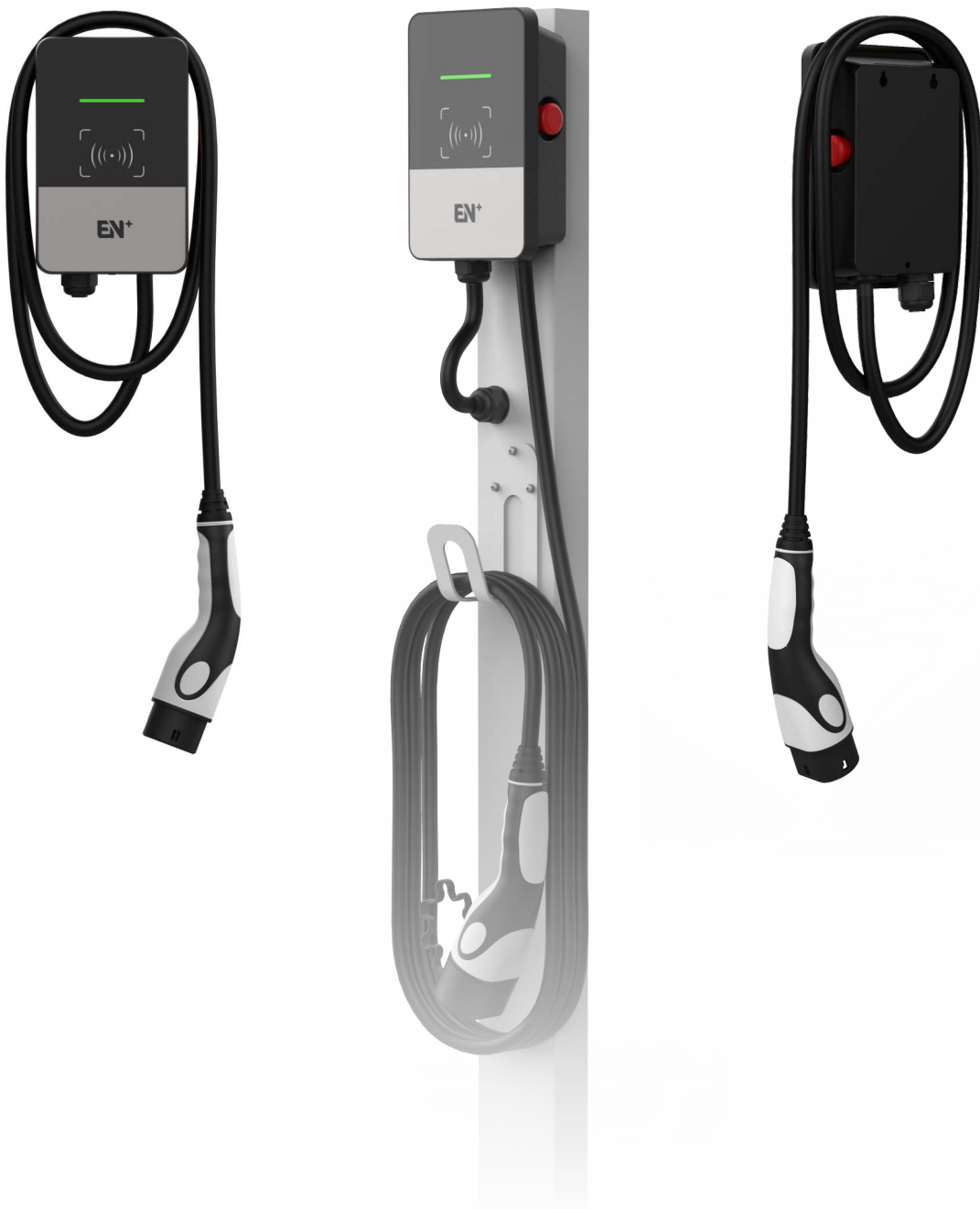
AC Single-phase 7KW Home Charger

Home charger is the single phase 7KW AC charger with maximum 32A output current, specially designed for private use.

The product design is highly integrated and compact, with half size of A4 paper. It saves space and is easy to operate, which is an ideal solution for your home or company.

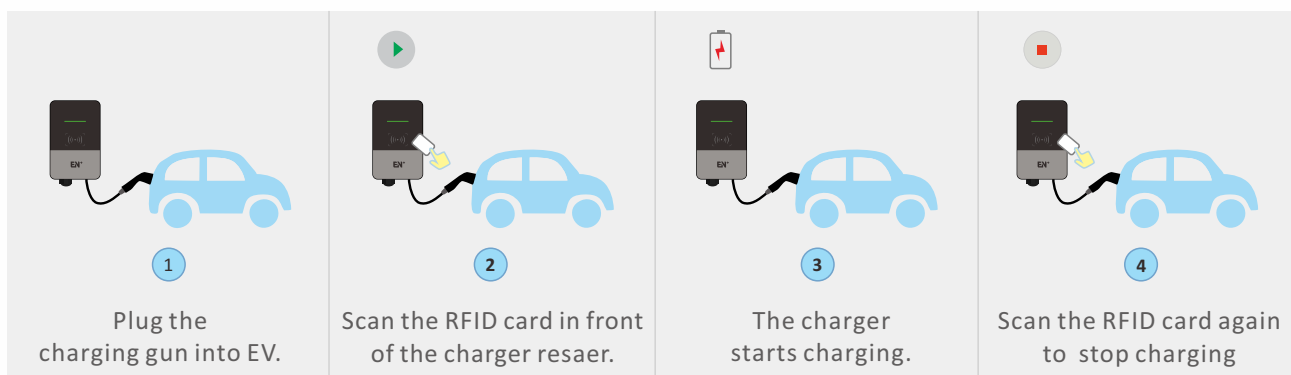
With protection grade up to IP65, it's suitable for both indoor and outdoor applications, supporting wall-mount as well as floor-stand installation.

The charger is equipped with RFID card function for ID authentication to prevent theft of electricity. Only the user with RFID card has access to the charging.



AC Single-phase 7KW Home Charger

Specification	Model	AC7000-AE-05
AC Nominal Input	Phases / Lines	1 phase + neutral + PE
	Voltage	230 V \pm 10%
	Frequency	50Hz
AC Nominal Output	Voltage	230 V \pm 10%
	Current	32A
	Power	7KW
Structure Design	Housing Material	Plastic PC940
	Installation Method	Wall-mount/Floor-stand
	Wall-mount Bracket	Not necessary
	Charging Outlet	One charging gun (Type 2)
	Cable Length	4M
	LED Indicator	Green/yellow/red color for different status
	LCD Screen	No
	Emergency Stop Button	Yes
	RFID Function	Yes
	RFID Card	2pcs Mifare card
Environmental Index	Operating Temperature	-30~+50°C
	Working Humidity	5%~95% without condensation
	Working Altitude	<2000M
	Protection Grade	IP65
	Application Site	Indoor/Outdoor
	Cooling Method	Natural cooling
Security Protection	Multiple Protection	Over/Under voltage protection, Overload protection, Short circuit protection, Current leakage protection, Grounding protection, Surge protection, Over/Under temperature protection
	MTBF	100,000 hours
	Safety Standard	IEC 61851-1: 2017, IEC 62196-2: 2016
	Warranty	2 years
Package Information	Product Dimension	233*150*69.5MM
	Package Demension	480*340*135MM
	Net Weight	3.6KG
	Gross Weight	4.5KG
	External Packing	Carton



AC Single-phase 7KW Commercial Charger

7KW commercial charger is designed for public use with RFID authentication. Equipped with a type 2 charging socket, the charger is compatible with either type 1 or type 2 cable.

Compliant with the industrial standards, the charger use MID certified meter to ensure accuracy and built-in RCD to secure safety. The charger also includes 6mA DC leakage detection, which eliminates the need for an expensive upcost of RCD type B.

The charger can be connected to a charging network with the help of EN-GATE gateway. Multiple public chargers in one location can be integrated in the network with only one internet communication connection. Thanks to open charge protocol OCPP 1.6, the charger operation and status is monitored and controlled by existing backend or central management system.



AC Single-phase 7KW Commercial Charger

Specification	Model	AC7000-BE-24
AC Nominal Input	Phases / Lines	1 phase + neutral + PE
	Voltage	230 V \pm 10%
	Frequency	50Hz
AC Nominal Output	Voltage	230 V \pm 10%
	Current	32A
	Power	7KW
Structure Design	Housing Material	Plastic PC940
	Front Panel	Temper glass
	Installation Method	Wall-mount/Floor-stand
	Wall-mount Bracket	Not necessary
	Charging Outlet	One charging socket (Type 2)
	Cable Length	No cable
	LED Indicator	Green/yellow/red color for different status
	LCD Screen	Display of charging data
	Touch Buttons	4 buttons for screen operation
	Emergency Stop Button	Yes
	RFID Function	Yes
	RFID Card	2pcs Mifare card
	Energy Meter	MID certified
	RCD	Type A + 6mA DC
Environmental Index	Operating Temperature	-30~+50°C
	Working Humidity	5%~95% without condensation
	Working Altitude	<2000M
	Protection Grade	IP54
	Application Site	Indoor/Outdoor
	Cooling Method	Natural cooling
Security Protection	Multiple Protection	Over/Under voltage protection, Overload protection, Short circuit protection, Current leakage protection, Grounding protection, Surge protection, Over/Under temperature protection
	MTBF	100,000 hours
	Safety Standard	IEC 61851-1: 2017, IEC 62196-2: 2016
	Warranty	2 years
Package Information	Product Dimension	356*221*136MM
	Package Demension	485*325*202MM
	Net Weight	3.0KG
	Gross Weight	4.5KG
	External Packing	Carton
Optional Parts	Network Gateway	Ethernet/3G/4G communication
	Communication Protocol	OCPP 1.6 (JSON)
	Floor-stand Pillar	Galvanized steel
	Type 2-Type 2 Cable	Single-phase/Three-phase, 4M cable
	Type 2-Type 1 Cable	Single-phase, 4M cable
	Fixed Cable instead of Socket	Type 1 or Type 2 chraging gun with 4M cable

AC Three-phase 22KW Commercial Charger

22KW commercial charger provides fast charging to electric vehicle equipped with three-phase on-board charger. Designed with a type 2 charging socket, the charger is compatible with either type 1 or type 2 cable.

Compliant with the industrial standards, the charger use MID certified meter to ensure accuracy and built-in RCD to secure safety. The charger also includes 6mA DC leakage detection, which eliminates the need for an expensive upcost of RCD type B.

The charger can be connected to a charging network with the help of EN-GATE gateway. Multiple public chargers in one location can be integrated in the network with only one internet communication connection. Thanks to open charge protocol OCPP 1.6, the charger operation and status is monitored and controlled by existing backend or central management system.



AC Three-phase 22KW Commercial Charger

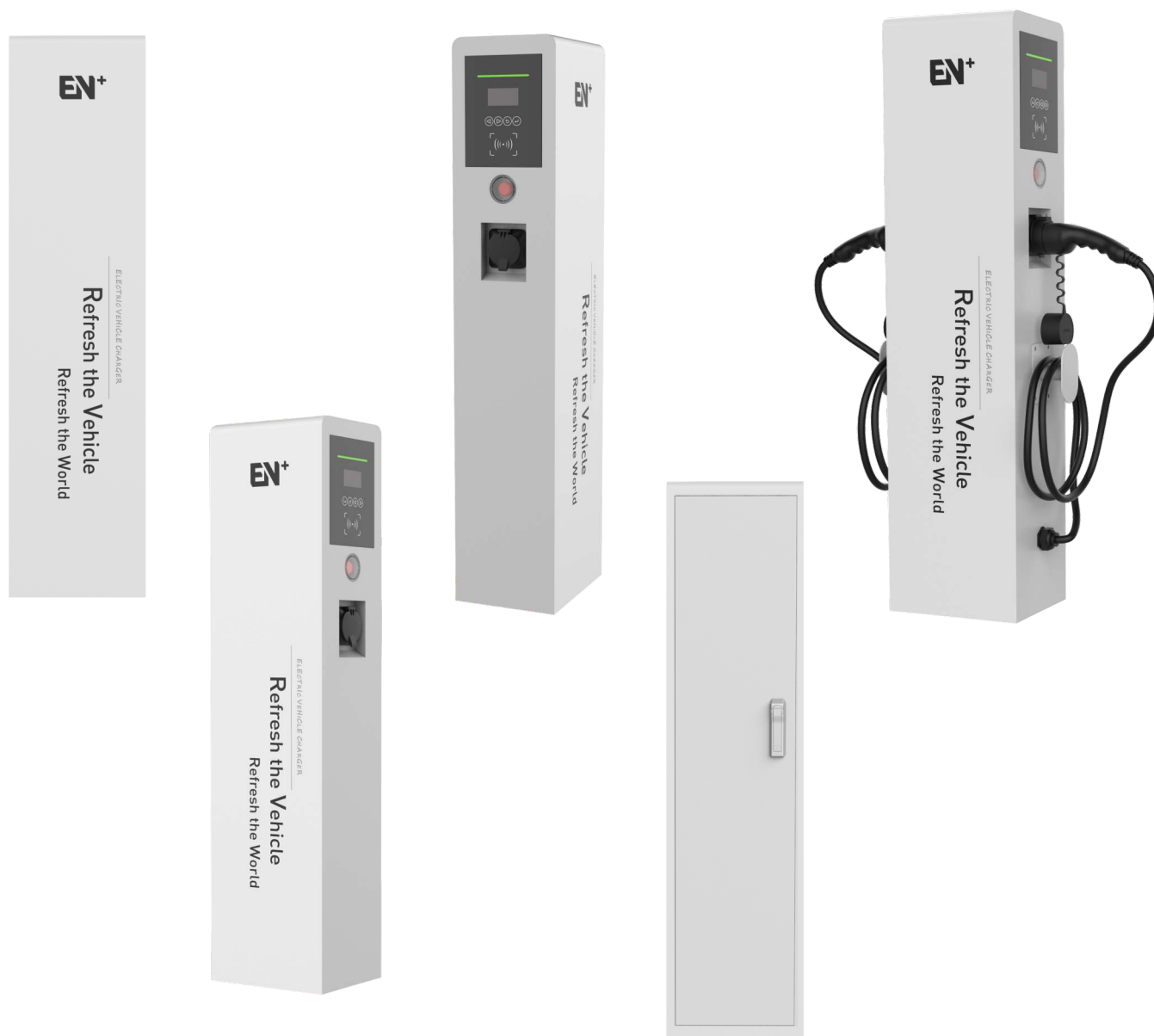
Specification	Model	AC022K-BE-24
AC Nominal Input	Phases / Lines	3 phase + neutral + PE
	Voltage	400 V \pm 10%
	Frequency	50Hz
AC Nominal Output	Voltage	400 V \pm 10%
	Current	32A
	Power	22KW
Structure Design	Housing Material	Galvanized steel
	Front Panel	Temper glass
	Installation Method	Wall-mount/Floor-stand
	Wall-mount Bracket	Yes
	Charging Outlet	One charging socket (Type 2)
	Cable Length	No cable
	LED Indicator	Green/yellow/red color for different status
	LCD Screen	Display of charging data
	Touch Buttons	4 buttons for screen operation
	Emergency Stop Button	Yes
	RFID Function	Yes
	RFID Card	2pcs Mifare card
	Energy Meter	MID certified
	RCD	Type A + 6mA DC
Environmental Index	Operating Temperature	-30 °C ~ +50 °C
	Working Humidity	5%~95% without condensation
	Working Altitude	<2000M
	Protection Grade	IP54
	Application Site	Indoor/Outdoor
	Cooling Method	Natural cooling
Security Protection	Multiple Protection	Over/Under voltage protection, Overload protection, Short circuit protection, Current leakage protection, Grounding protection, Surge protection, Over/Under temperature protection
	MTBF	100,000 hours
	Safety Standard	IEC 61851-1: 2017, IEC 62196-2: 2016
	Warranty	2 years
Package Information	Product Dimension	452*295*148MM
	Package Demension	560*380*210MM
	Net Weight	10KG
	Gross Weight	12KG
	External Packing	Carton
Optional Parts	Network Gateway	Ethernet/3G/4G communication
	Communication Protocol	OCPP 1.6 (JSON)
	Floor-stand Pillar	Galvanized steel
	Type 2-Type 2 Cable	Three-phase, 4M cable
	Fixed Cable instead of Socket	Type 2 chraging gun with 4M cable

AC Three-phase 2x22KW Commercial Charger

2x22KW commercial charger is designed to have 2 outputs, able to charge two electric vehicles simultaneously. The floor-stand design with dual charging sockets increases the usage rate and saves installation cost.

Compliant with the industrial standards, the charger use MID certified meter to ensure accuracy and built-in RCD to secure safety. The charger also includes 6mA DC leakage detection, which eliminates the need for an expensive upcost of RCD type B.

The charger can be connected to a charging network with the help of EN-GATE gateway. Multiple public chargers in one location can be integrated in the network with only one internet communication connection. Thanks to open charge protocol OCPP 1.6, the charger operation and status is monitored and controlled by existing backend or central management system.



AC Three-phase 2x22KW Commercial Charger

Specification	Model	AC044K-BE-24
AC Nominal Input	Phases / Lines	3 phase + neutral + PE
	Voltage	400 V \pm 10%
	Frequency	50Hz
AC Nominal Output	Voltage	400 V \pm 10%
	Current	2x32A
	Power	2x22KW
Structure Design	Housing Material	Galvanized steel
	Left/Right Panel	Temper glass
	Installation Method	Floor-stand
	Charging Outlet	Two charging sockets (Type 2)
	Cable Length	No cable
	LED Indicator	Green/yellow/red color for different status
	LCD Screen	Display of charging data
	Touch Buttons	4 buttons for screen operation
	Emergency Stop Button	Yes
	RFID Function	Yes
	RFID Card	4 pcs Mifare card
	Energy Meter	MID certified
	RCD	Type A + 6mA DC
	Operating Temperature	-30 °C ~ +50 °C
Environmental Index	Working Humidity	5%~95% without condensation
	Working Altitude	<2000M
	Protection Grade	IP54
	Application Site	Indoor/Outdoor
	Cooling Method	Natural cooling
Security Protection	Multiple Protection	Over/Under voltage protection, Overload protection, Short circuit protection, Current leakage protection, Grounding protection, Surge protection, Over/Under temperature protection
	MTBF	100,000 hours
	Safety Standard	IEC 61851-1: 2017, IEC 62196-2: 2016
	Warranty	2 years
Package Information	Product Dimension	290*230*1200MM
	Package Demension	480*430*1320MM
	Net Weight	32.5KG
	Gross Weight	43.5KG
	External Packing	Wooden case
Optional Parts	Network Gateway	Ethernet/3G/4G communication
	Communication Protocol	OCPP 1.6 (JSON)
	Type 2-Type 2 Cable	Three-phase, 4M cable
	Fixed Cable instead of Socket	Type 2 chraging gun with 4M cable

OCPP Gateway EN-GATE

EN-GATE is the abbreviation for energy gateway, which controls the network communication between chargers and the backend by means of Ethernet/3G/4G.

The gateway has the function of cluster management, enabling network connection with maximum 12pcs chargers via just one gateway. The advantage is to minimize the communication fees, reduce the single charger cost, and decrease the pressure on cloud server.

EN-GATE applies CAN communication with the charger, and Ethernet/3G/4G communication with the Internet. Using OCPP 1.6 communication protocol, EN-GATE reports charger information to the backend in real time, and control operations such as reservation and charging management. Since OCPP 1.6 is an open charge protocol, the EN-GATE can also be docked easily with other backend that supports OCPP protocol.

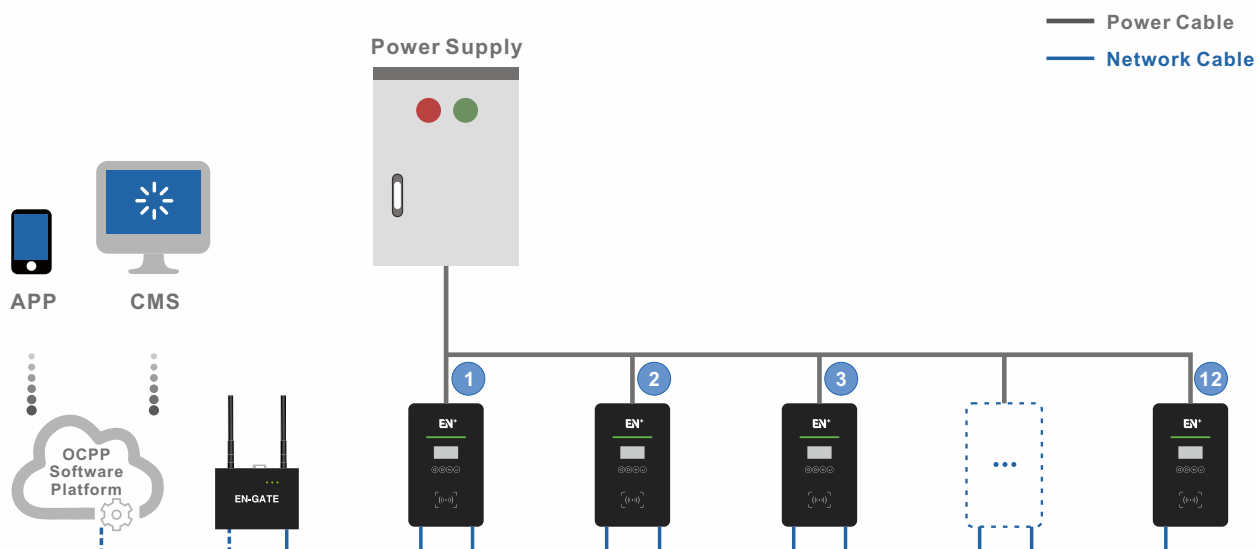


OCPP Gateway EN-GATE

Specification	Model	ENGATE-04-12
Electrical Parameter	Power Supply	CAN connection/External power
	Working Voltage	12V
	Working Current	500mA
Structure Design	Housing Material	Galvanized steel
	Installation Method	Wall-mount/Built-in
	LED Indicator	3 indicators
	Platform	Linux system
	Maintenance Port	Micro USB, RS485
	Local Upgrade/Data Port	USB
Communication	EN-GATE v.s. Charger	CAN
	Max. Chargers (within 100M)	12pcs
	EN-GATE v.s. Backend	Ethernet/3G/4G
	Communication Protocol	OCPP 1.6 (JSON)
Environmental Index	Working Temperature	-30 °C ~ +50 °C
	Protection Grade	IP21
	Application Site	Indoor
Package Information	Product Dimension	125*92*28MM
	Package Demension	243*131*70MM
	Net Weight	0.35KG
	Gross Weight	0.45KG
	External Packing	Carton

Cluster Management

In clusters of chargers in a parking garage, a single EN-GATE can act as the communication gateway for maximum 12pcs chargers. Connect the EN-GATE with Charger #1, and Charger #1 connects to the other chargers one after one with network cables. The length of network cable between EN-GATE and Charger #1 should be less than 10M. The total length of network cables from EN-GATE to the farthest charger should be less than 100M.



AC Single-phase 7KW Advertisement Charger

Different with traditional chargers, advertisement charger combines AC charging and multimedia advertisement into one. It's the perfect choice for application in places visited by crowds of people, like the shopping center. The installation of advertisement chargers in a shopping center brings the significant advantage to promote sales and attract customers. It is easy to make an EV owner a regular customer who is able to do shopping and charge their vehicle in the same place and at the same time.

With a 32-inch HD displayer, the charger offers spot broadcast for advertisement, public announcements and other marketing materials. The ads loading can be done locally or remotely with the help of network connection by Ethernet or WIFI. Separate software platform to manage the charging service and advertisement display to avoid interference and complete breakdown. Innovative and user friendly, the advertisement charger creates new business opportunity for EV charging service.



AC Single-phase 7KW Advertisement Charger

Specification	Model	AC7000-EE-04
AC Nominal Input	Phases / Lines	1 phase + neutral + PE
	Voltage	230 V \pm 10%
	Frequency	50Hz
AC Nominal Output	Voltage	230 V \pm 10%
	Current	32A
	Power	7KW
Displayer Parameter	Displayer Size	32 inch
	Displayer Scale	16:9 vertically
	Resolution	1920*1080
	Luminance	300cd/m2
	Platform	Android 4.3 above system
	Network Communication	Ethernet/WIFI
	Ads Upload	USB flash disk, SD card, Internet remote upload
	Image Format	JPEG, BMP, GIF, PNG
	Video Format	Mp4, AVI, DIVX, XVID, VOB, DAT, MPG, RM, RMVB, MKB, MOV, HDMOV, M4V, PMP, AVC, FLV
	Audio Format	Mp3, WMA, OGG, AAC, AC, DTS, FLAC, APE
Structure Design	Housing Material	Galvanized steel
	Front Panel	Temper glass
	Installation Method	Wall-mount
	Wall-mount Bracket	Yes
	Charging Outlet	One charging gun (Type 2)
	Cable Length	4M
	LED Indicator	Green/yellow/red color for different status
	LCD Screen	Display of charging data
	Emergency Stop Button	Yes
	RFID Function	Yes
	RFID Card	2pcs Mifare card
Environmental Index	Operating Temperature	-20 °C ~ +50 °C
	Working Humidity	5%~95% without condensation
	Working Altitude	<2000M
	Protection Grade	IP31
	Application Site	Indoor
Security Protection	Cooling Method	Natural cooling
	Multiple Protection	Over/Under voltage protection, Overload protection, Short circuit protection, Current leakage protection, Grounding protection, Surge protection, Over/Under temperature protection
	MTBF	100,000 hours
	Safety Standard	IEC 61851-1: 2017, IEC 62196-2: 2016
	Warranty	2 years
Package Information	Product Dimension	473*115*1000MM
	Package Demension	570*200*1100MM
	Net Weight	25.5KG
	Gross Weight	28.5KG
	External Packing	Carton

DC 20KW Wall-mount Charger

Wall-mount DC charger is designed for private use, providing fast charging for electric vehicle. With EV battery capacity increasing, DC charging will emerge in more and more locations.

Using self-developed 20KW power module, the charger design is highly integrated and compact, with protection grade up to IP54, which is suitable for both indoor and outdoor applications. Equipped with a CCS2 charging gun, its easy operation as plug-and-play makes it an ideal solution for the fleet or parking facilities.

It's optional to change plug-and-play to startup by RFID card so as to prevent theft of electricity. Only the user with RFID card has access to the charging.



DC 20KW Wall-mount Charger

Specification	Model	DC020K-FE-00
AC Nominal Input	Phases / Lines	3 phase + neutral + PE
	Voltage	400 V \pm 10%
	Frequency	50Hz
DC Nominal Output	Voltage	200~750V
	Current	Max. 33A
	Power	20KW
Electrical Parameter	Power Factor	≥ 0.99 (50%~100% load)
	THD Value	$\leq 5\%$ (50%~100% load)
	Stable Voltage Accuracy	$\leq \pm 0.5\%$
	Stable Current Accuracy	$\leq \pm 1\%$
	Efficiency	Max. 95%
	Auxiliary Power	12V
Structure Design	Housing Material	Galvanized steel
	Installation Method	Wall-mount
	Wall-mount Bracket	Yes
	Charging Outlet	One charging gun (CCS Combo 2)
	Cable Length	4M
	LED Indicator	2 indicators
	LCD Screen	Yes
	Emergency Stop Button	Yes
	Startup Mode	Plug-and-play
	RFID Function	Optional
Communication	Charger v.s. EV	PLC (DIN 70121: 2014-12)
Environmental Index	Operating Temperature	-30 °C ~ +50 °C
	Working Humidity	5%~95% without condensation
	Working Altitude	< 2000M
	Protection Grade	IP54
	Application Site	Indoor/Outdoor
	Cooling Method	Fan cooling
	Noise	≤ 60 dB
Security Protection	Multiple Protection	Over/Under voltage protection, Overload protection, Short circuit protection, Over/Under temperature protection, Grounding protection, Surge protection
	MTBF	100,000 hours
	Safety Standard	IEC 61851-1: 2017, IEC 61851-23: 2014
	Warranty	1 year
Package Information	Product Dimension	426*163*566MM
	Package Demension	510*240*645MM
	Net Weight	16KG
	Gross Weight	18KG
	External Packing	Carton

DC 60KW Fast Charger

DC 60KW fast charger meets the European charging standards for new energy electric vehicles. Power control, charging management, network communication and other customized functions, all in one device.

The entire charging process is under intelligent control, offering 200~750V output voltage range. CCS2 single gun charging offers super fast charging for one electric vehicle. CCS 2 dual guns charging allows the charging of two electric vehicles simultaneously with equal power distribution.

Applicable for highway service areas, gas stations, electric bus stations, and other large parking lots. Compatible for multiple electric vehicles with DC fast charging of CCS protocol.



DC 60KW Fast Charger

Specification	Model	DC060K-BE-20
AC Nominal Input	Phases / Lines	3 phase + neutral + PE
	Voltage	400 V \pm 10%
	Frequency	50Hz
DC Nominal Output	Voltage	200~750V
	Current	80A
	Power	60KW
Electrical Parameter	Power Factor	≥ 0.99 (50%~100% load)
	THD Value	$\leq 5\%$ (50%~100% load)
	Stable Voltage Accuracy	$\leq \pm 0.5\%$
	Stable Current Accuracy	$\leq \pm 1\%$
	Efficiency	Max. 94%
	Auxiliary Power	12V
Structure Design	Housing Material	Galvanized steel
	Installation Method	Floor-stand
	Charging Outlet	One/Two charging guns (CCS Combo 2)
	Cable Length	4M
	LED Indicator	3 indicators
	LCD Screen	Daylight readable touchscreen
	Emergency Stop Button	Yes
	Startup Mode	Plug-and-play/RFID Card/QR Code
	RFID Function	Optional
Communication	Charger v.s. EV	PLC (DIN 70121: 2014-12)
	EN-GATE v.s. Charger	CAN
	EN-GATE v.s. Backend	Ethernet/3G/4G
	Communication Protocol	OCPP 1.6 (JSON)
Environmental Index	Operating Temperature	-30 °C ~ +50 °C
	Working Humidity	5%~95% without condensation
	Working Altitude	< 2000M
	Protection Grade	IP54
	Application Site	Indoor/Outdoor
	Cooling Method	Fan cooling
Security Protection	Noise	≤ 60 dB
	Multiple Protection	Over/Under voltage protection, Overload protection, Short circuit protection, Over/Under temperature protection, Grounding protection, Surge protection
	MTBF	100,000 hours
	Safety Standard	IEC 61851-1: 2017, IEC 61851-23: 2014
Package Information	Warranty	1 year
	Product Dimension	700*280*1600mm
	Package Demension	800*380*1800MM
	Net Weight	200KG
	Gross Weight	230KG
	External Packing	Wooden case

Power Module

DCM series power modules are developed to improve the fast charging experience of electric vehicles. With creative design and ingenious shape, the power modules apply state-of-the-art technology (VIENNA+LLC), presenting a number of industry-leading original functions.

Highly reliable, low energy consumption, high efficiency, wide constant power range, high power factor, high power density, and wide working temperature range are the outstanding advantages.

Widely used in charging stations or battery swapping stations of new energy electric vehicles such as electric vehicles, electric buses, electric trucks, electric logistics vans, and other high-voltage, high-power DC power supply applications.



Features

Unique Sleep Mode

In standby state, the energy generated by power module is part of the operating cost of chargers. DCM series power modules control the standby power within 8W, and the power of sleep mode (patented technology) is even less than 2W, greatly reducing the operating costs.



Low Energy
Consumption

High Conversion Efficiency

DCM series power modules use proprietary control technology to increase conversion efficiency up to 96%. High efficiency over the full voltage range.

Intelligent Parallel Mode

In parallel mode, users can select the intelligent parallel mode. When the power module is working under a light load, partial modules initiatively exit the parallel mode, to have the system work with best efficiency, further improving the system conversion efficiency.

Overall Temperature Monitoring

Temperature monitoring on up to 8 points such as ambient temperature, DSP control circuit, power devices, magnetic devices and so on, which greatly ensure the stable and reliable operation of power module.



High Reliability

Three-proofing Design

Use proprietary structures to strengthen the protection of semiconductor devices. Automatic spraying process of three-proofing coating, thickening the sealing of core parts, and so on measures to intensify the defenses of moisture, salt spray and fungus.

MTBF> 100,000 Hours

DSP digital control to reduces analog devices, professional heat flow design to reduce temperature rise, long-life electrolytic capacitors and international brand components to ensure the quality of power modules.

Wide Input Voltage Range

DCM series power modules have input voltage from 260Vac to 470Vac, compatible with EV models of different voltage levels, supporting the charging of both electric buses and electric sedans.



Super Adaptability

Wide Working Temperature Range

With working temperature from -30°C to 75°C (Derating above 55°C), DCM series power modules work safely and reliably in extreme cold and hot environment .



All-direction Protections

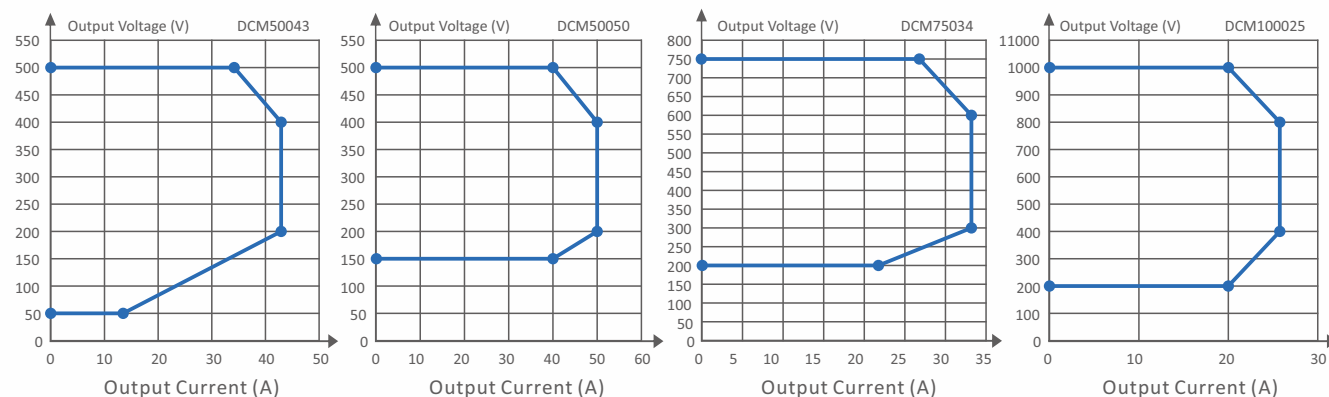
DCM series power modules have conventional protections such as input overvoltage protection, input undervoltage protection, output overvoltage protection, output current limit protection, output short circuit protection, over temperature protection, and low temperature protection. It also adopts PFC wave-by-wave current limit protection and LLC resonant cavity over current protection (patented technology), providing reliable technical support for the operation of power modules.

Power Module

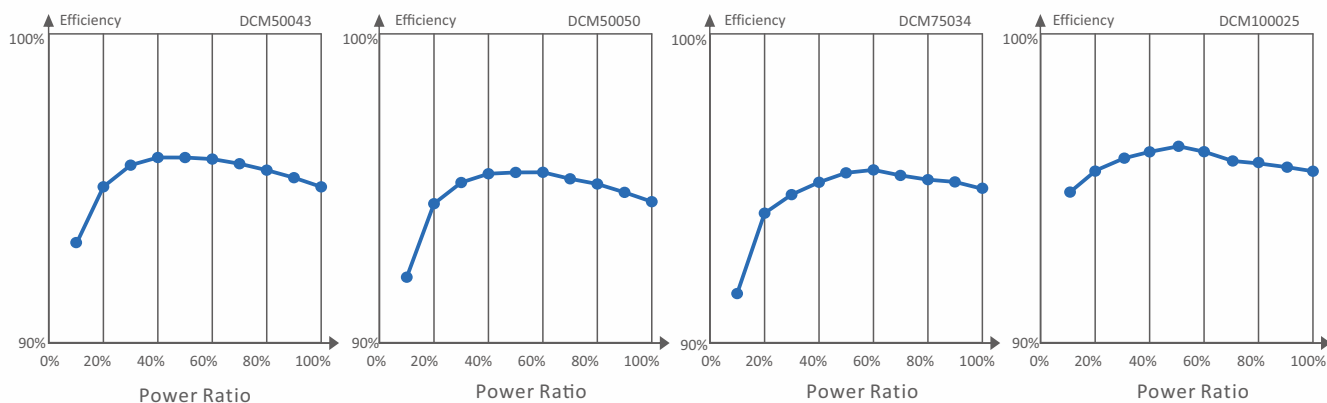
Specification	Model	DCM50043	DCM50050	DCM75034	DCM100025
Ratings	Basic Parameter	17KW/500V	20KW/500V	20KW/750V	20KW/1000V
AC Nominal Input	Phases / Lines	3 phase + PE			
	Rated Voltage	400Vac			
	Voltage Range	260~470Vac			
	Full-load Voltage	323~470Vac			
	Rated Frequency	50/60Hz			
	Frequency Range	47~63Hz			
	Standby Power	<8W			
	Sleep Mode Power	<2W			
	THD Value	≦3% (100% rated output load)			
	Power Factor	≧0.99 (25%-100% rated output load)			
	Current	≦34A	≦40A		
	Startup Inrush Current	≦38A	≦44A		
DC Nominal Output	Rated Voltage	500V	500V	750V	1000V
	Rated Current	34A	40A	26.7A	20A
	Voltage Range	50~500V	150~500V	200~750V	200~1000V
	Max. Current	42.5A	50A	33.3A	25A
	Max. Power	17KW	20KW		
	Efficiency	96% (Max)			
	Stable Voltage Accuracy	≦±0.5%			
	Stable Current Accuracy	≦±1%			
	Voltage Deviation	≦±0.5%			
	Current Deviation	≧±0.1A, Load current <10A; ≧±1%, Load current ≧10A			
	Ripple Factor	Peak coefficient <1%, RMS coefficient <0.5%			
	Current Imbalance	≦5% (50%-100% Load)			
Function Design	Soft Start Time	3S~8S			
	Power Overshoot	No overshoot			
	Sleep Function	Yes			
	Communication Flow	Manual allocation and autotomatic allocation			
	Communication Protocol	CAN			
	Operating Temperature	-30℃~-+70℃ (Derating above 55℃)			
	Full-load Working Temperature	-30℃~-+50℃			
Environmental Index	Storage Temperature	-40℃~-+85℃			
	Working Humidity	5%~95% without condensation			
	Working Altitude	<2000M			
	Protection Grade	IP20			
	Cooling Method	Fan cooling			
	Noise	≦60dB (25℃@380Vac, full-load output)			
Security Protection	Multiple Protection	Over/Under voltage protection, Output current limit protection, Output short circuit protection, Surge protection, Over/Under temperature protection			
	MTBF	100,000 hours			
	Safety Standard	NB 33008.1; GB 18487; EN 61851-23			
	Warranty	2 years			

Power Module

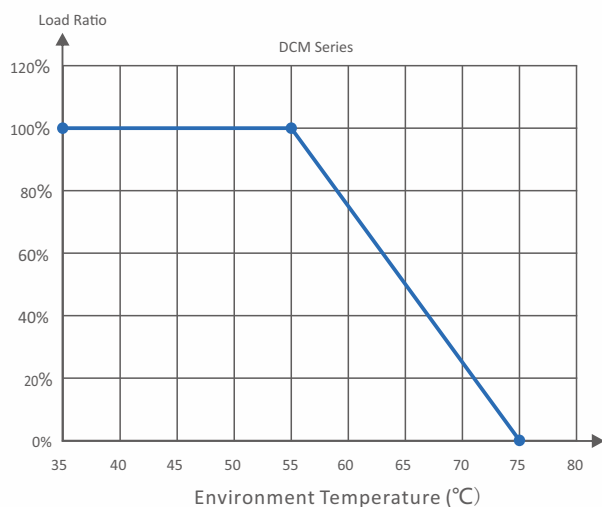
Output Curve



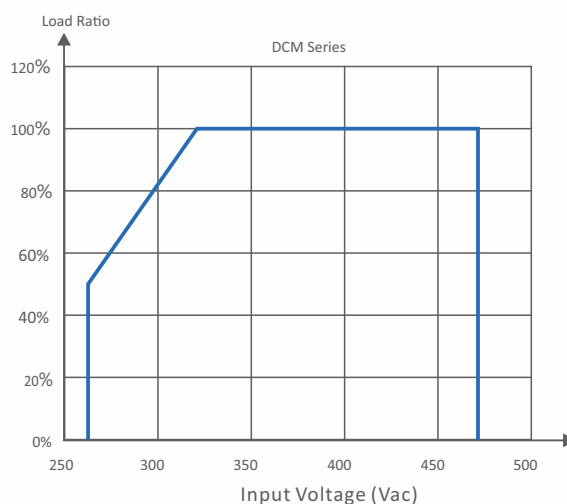
Efficiency Curve



Temperature & Power Relationship Curve



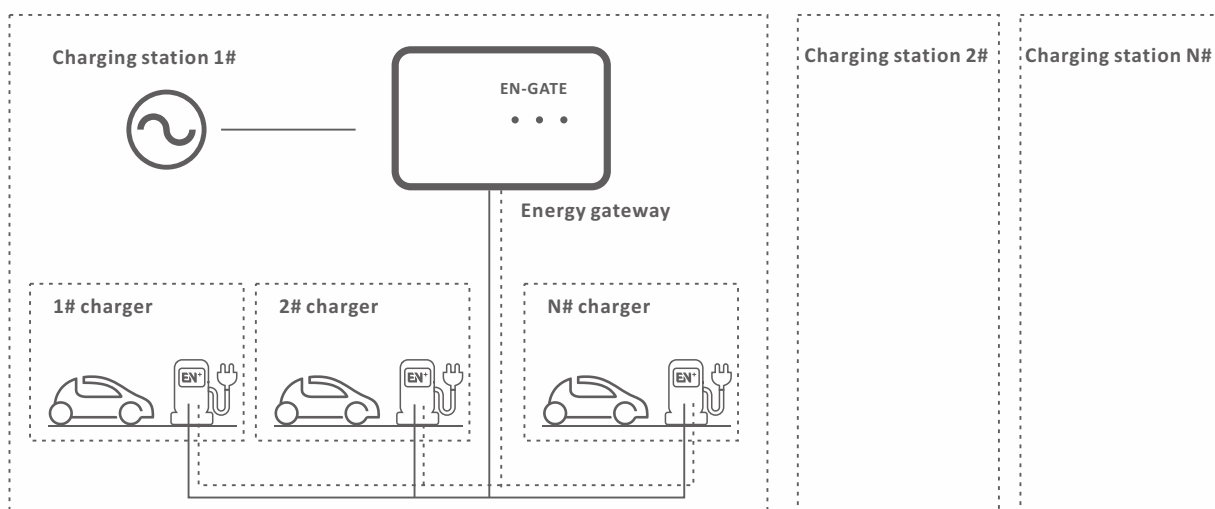
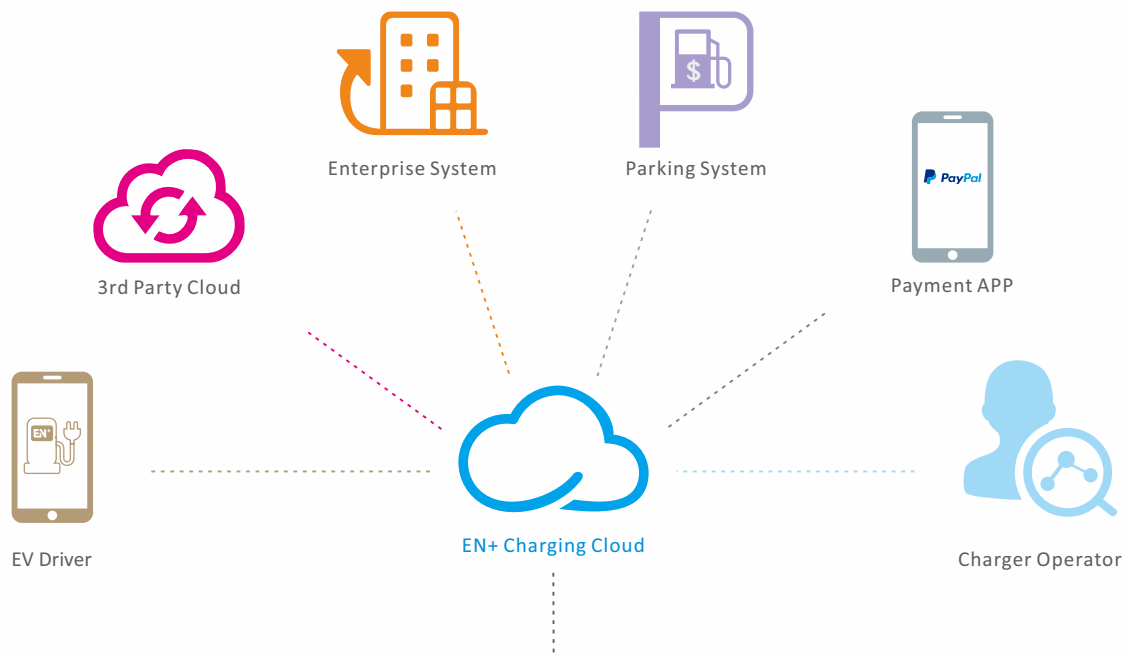
Input Voltage & Power Relationship Curve



Charging Cloud Platform

EN+ is dedicated to enabling the future of e-mobility by providing the most open, secure and robust charging network anywhere. A charging platform based on the cloud server makes it simple for charger owners to operate and customize chargers to meet their specific requirements. We provide everything you need to offer a complete EV charging solution.

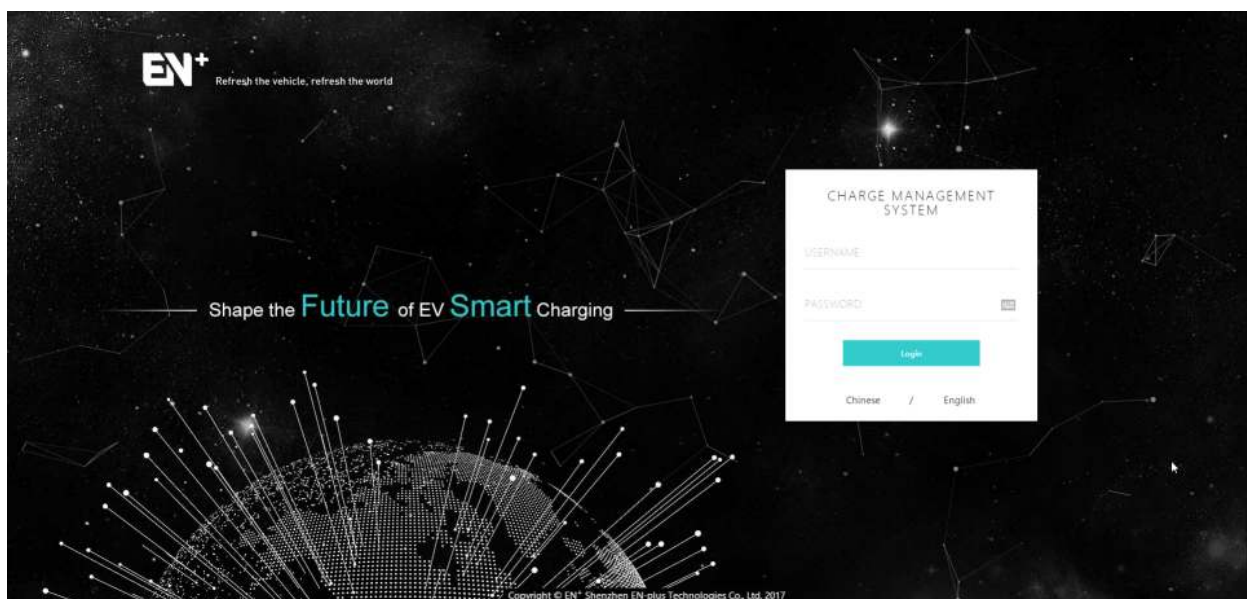
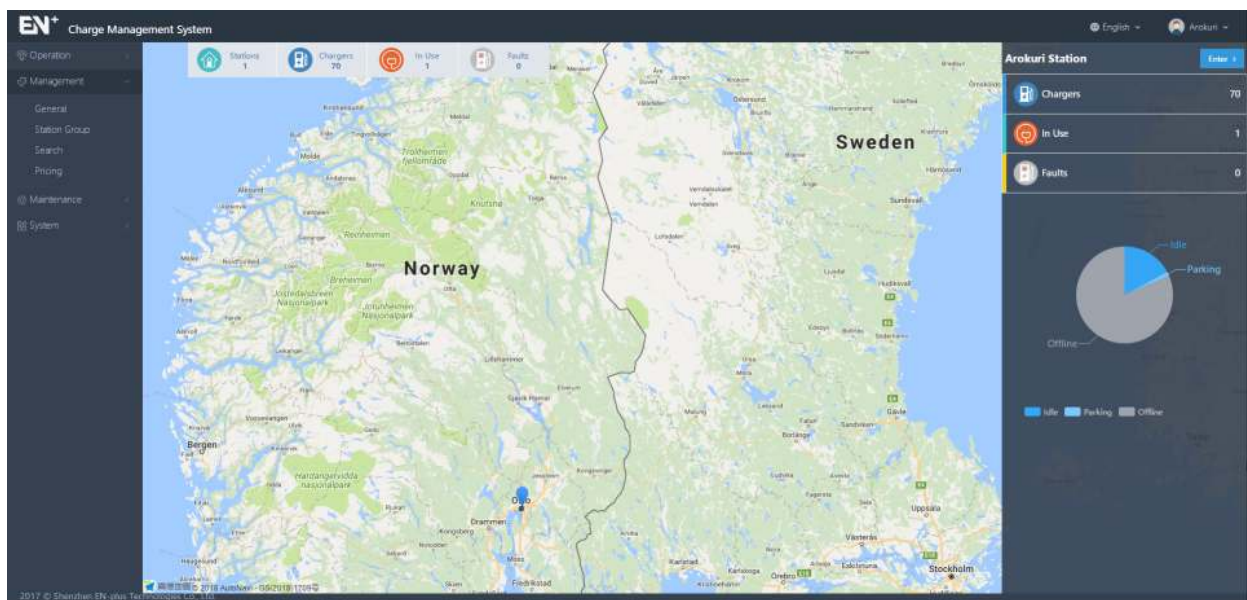
- **OCPP Capable:** Easy process to integrate other OCPP-capable chargers to the charging cloud platform through OCPP protocol.
- **Real-time Monitor:** A graphical dashboard shows real-time status, helping charger operator or EV driver to manage charging service from their computer or mobile phone.
- **Flexible Integration:** Integrations with other systems - APIs allow flexible integration with other systems including payment apps, parking system, enterprise existing system and 3rd party cloud platform.



Charging Management System

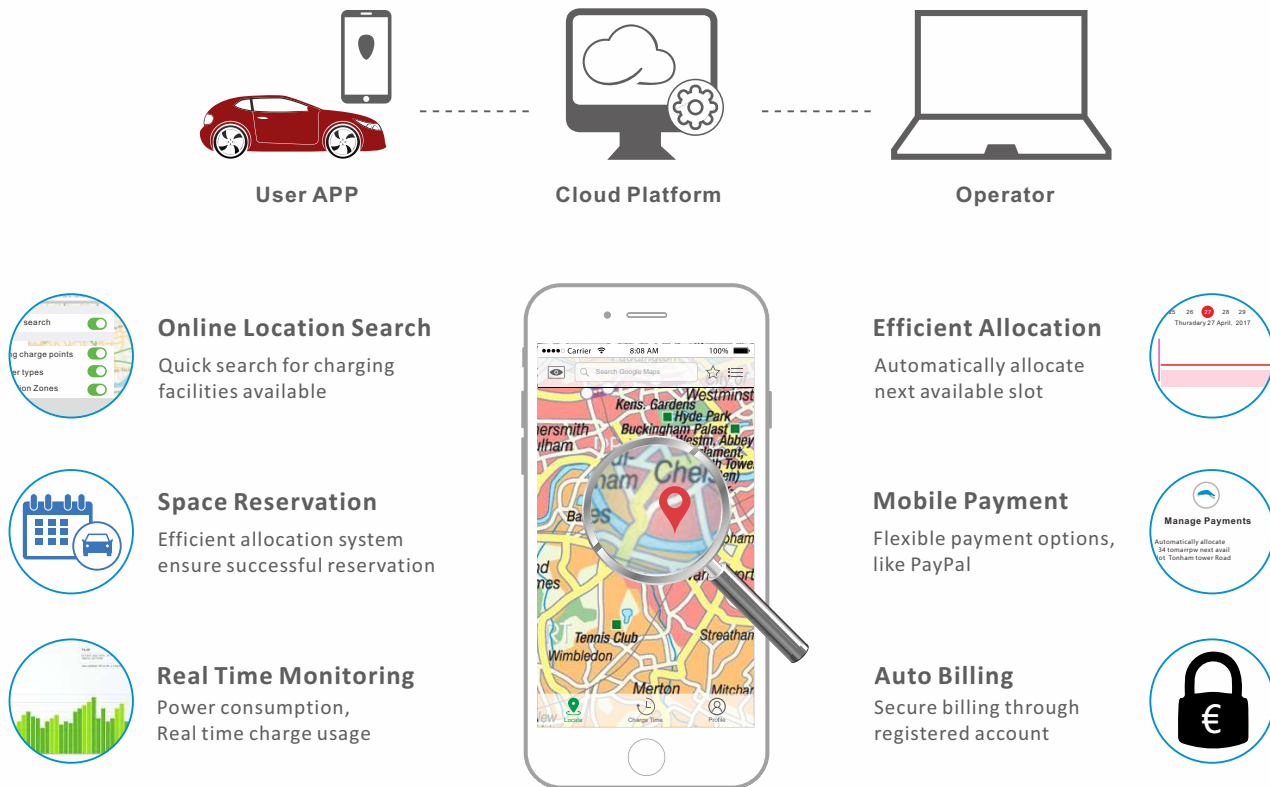
Charge management system is developed for charger operator, who maintain the chargers and make money from EV driver on the energy consumption. It's the backend for charger operator to monitor the charging service to all users.

- ▶ **Care-free Management:** Supervise working performance of every single charger and get notification of alarms to arrange in-time maintenance.
- ▶ **Flexible pricing:** Set the price that drivers pay to use charging service based on energy cost, energy consumption, duration of use or parking time.
- ▶ **Power management:** Ensure the charger never draw more power than the site can provide, saving the installation costs and lets you charge more vehicles.
- ▶ **Remote Diagnostics:** Automatically upload charging logs which contributes to error analysis, allowing remote firmware upgrade in case of further improvement.

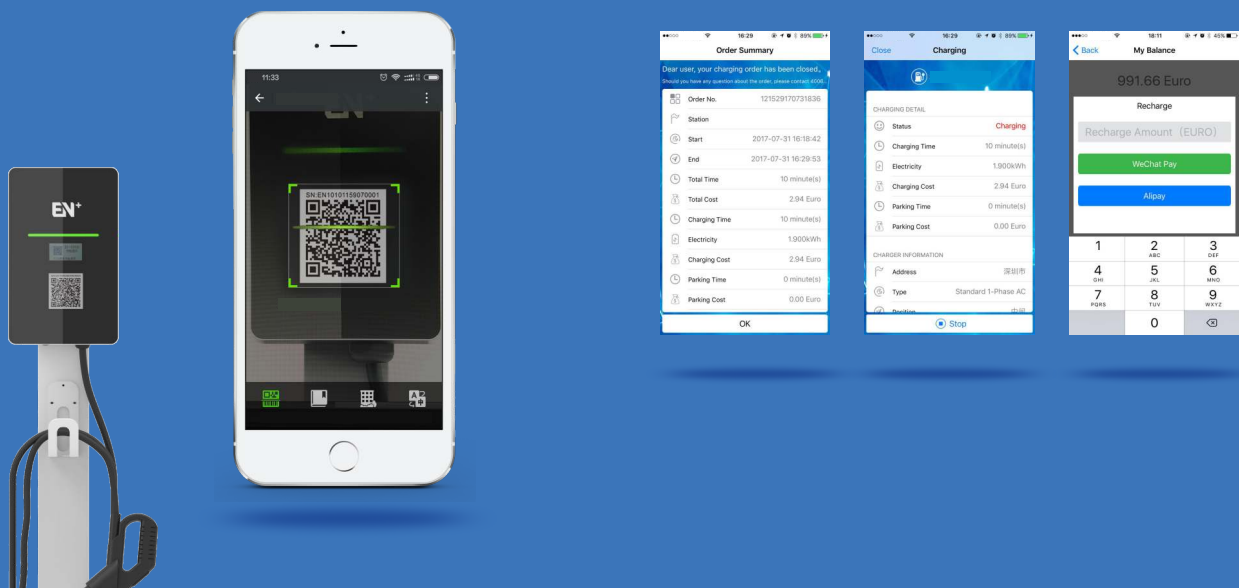


Mobile App

EN+ mobile app connects drivers with charging station so they can easily find a charger when they are in need. It enables EV drivers to do location search, space reservation, charging control and payment settlement. All is fixed in one mobile phone.



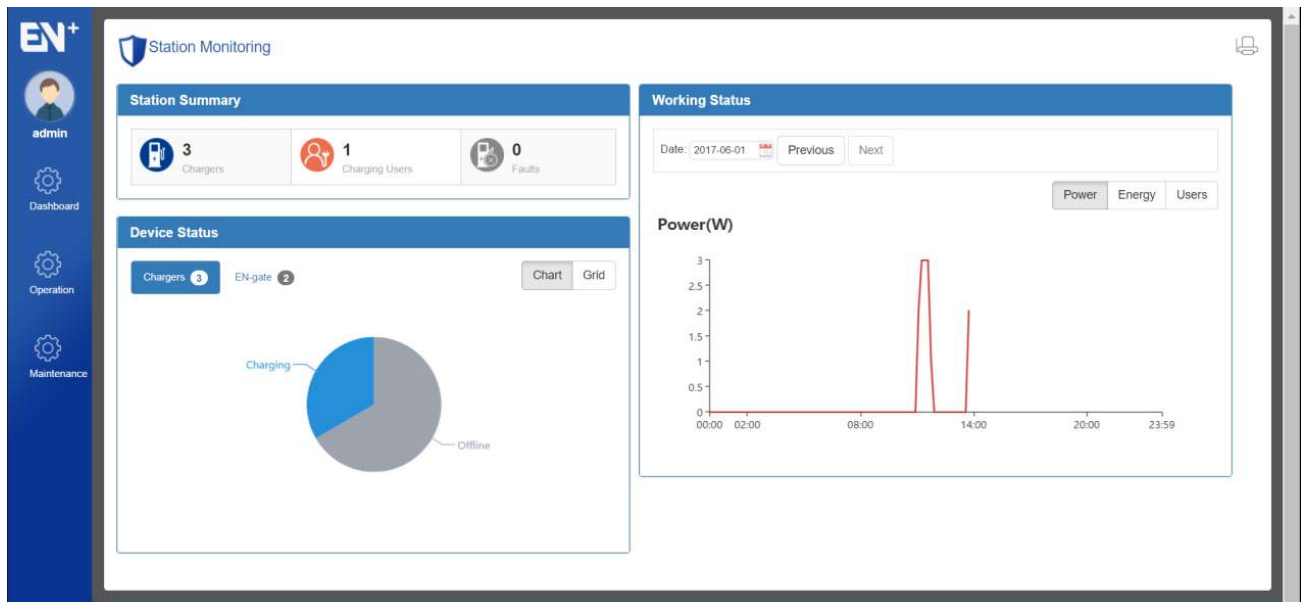
Registered application accounts, fill in the SN No. or scan the QR code at the charging station to start charging. User friendly, easy and convenient.



LAN Charge Management System

Local charge management system is a software infrastructure used in a local network to manage the EV chargers installed in that same location.

The software is set up in a personal computer connected to EV chargers via network cables, putting the chargers under system management. Only the person operating in the computer can monitor and control the chargers.



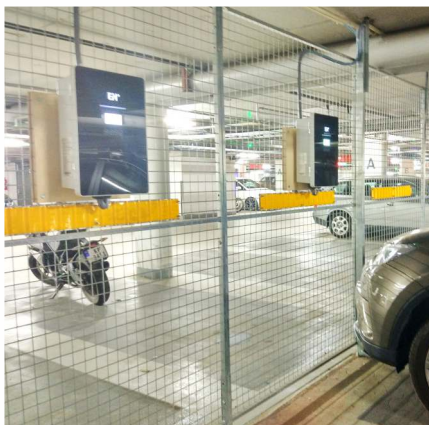
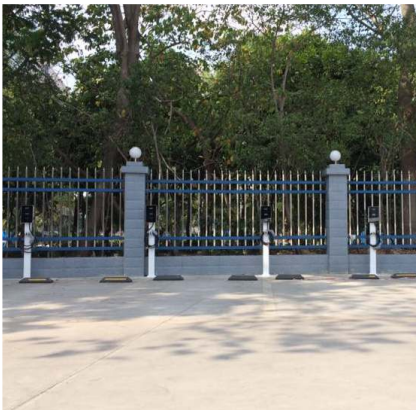
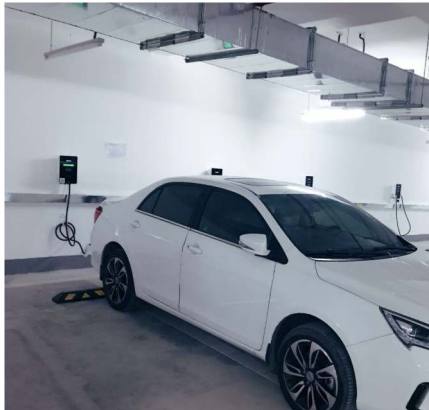
Order Listing

All Stations | All Statuses | All Payment Statuses | 2017-05-01 - 2017-06-01 | All User Type | Search by charger SN

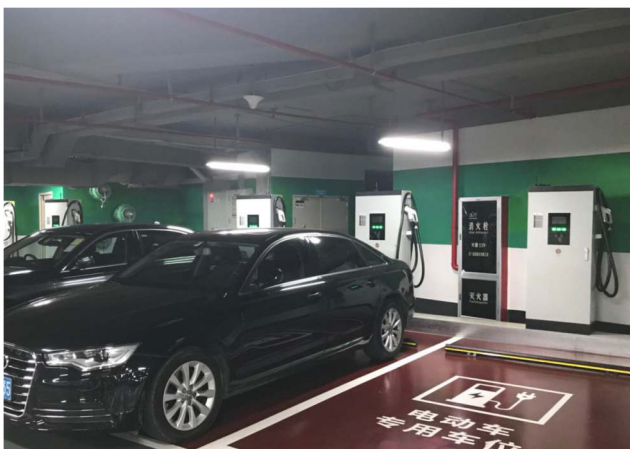
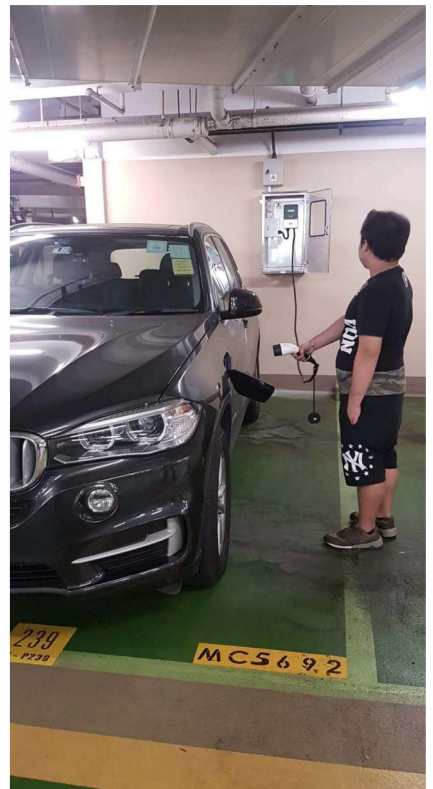
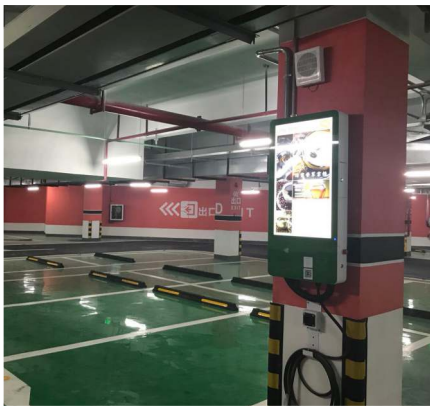
Order No.	User	Station	Charger	Status	Start	End	Energy	Electricity Fee	Service Fee	Parking Fee	Total Charge	Paid?	Action
EN1000170601008	platformUser	Charging Station	EN10103162260089	Charging	2017-06-01 13:40:36	-	0	0	0	0	0	Unpaid	Detail
EN1000170601007	platformUser	Charging Station	EN10103162260089	Closed	2017-06-01 11:42:00	2017-06-01 13:39:33	0	0	0	0	0	Paid	Detail
EN1000170601006	platformUser	Charging Station	EN10103162260089	Closed	2017-06-01 11:33:23	2017-06-01 11:40:39	0	0	0	0	0	Paid	Detail
EN1000170601005	platformUser	Charging Station	EN10103162260089	Closed	2017-06-01 11:32:35	2017-06-01 11:33:13	0	0	0	0	0	Paid	Detail
EN1000170601004	platformUser	Charging Station	EN10103162260089	Closed	2017-06-01 11:21:23	2017-06-01 11:32:16	0	0	0	0	0	Paid	Detail
EN1000170601003	platformUser	Charging Station	EN10103162260089	Closed	2017-06-01 11:06:54	2017-06-01 11:11:45	0	0	0	0	0	Paid	Detail
EN1000170601002	platformUser	Charging Station	EN10103162260089	Closed	2017-06-01 11:04:48	2017-06-01 11:06:43	0	0	0	0	0	Paid	Detail
EN1000170601001	platformUser	Charging Station	EN10103162260089	Closed	2017-06-01 11:01:05	2017-06-01 11:01:49	0	0	0	0	0	Paid	Detail

Showing 1 to 8 of 8 rows

Project Cases



Project Cases





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