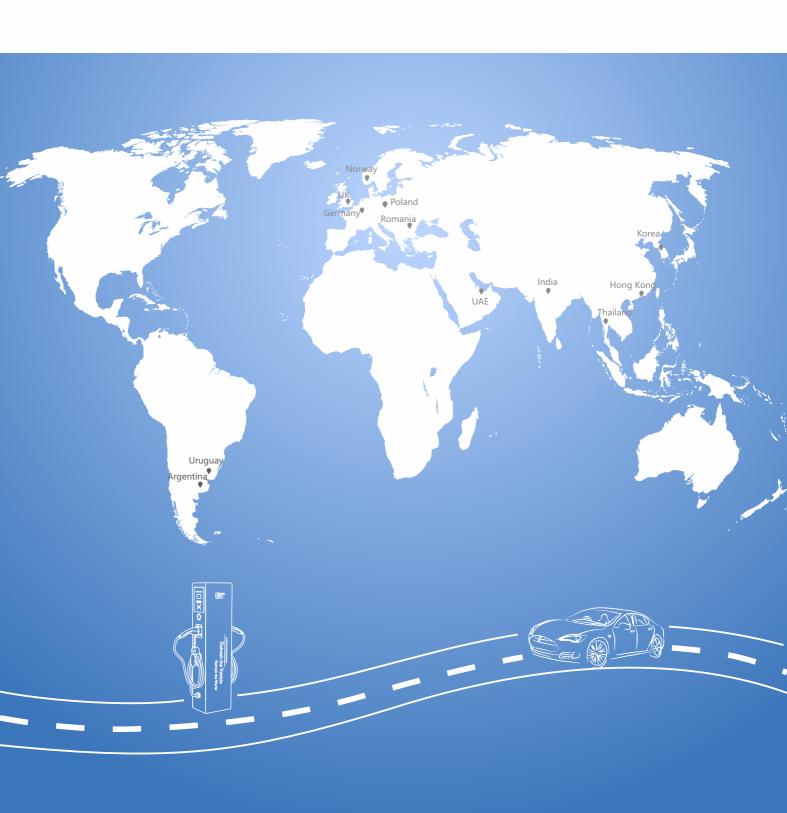


INTELLIGENT SYSTEM CHARGING

Shenzhen EN-plus Technologies Co., Ltd.





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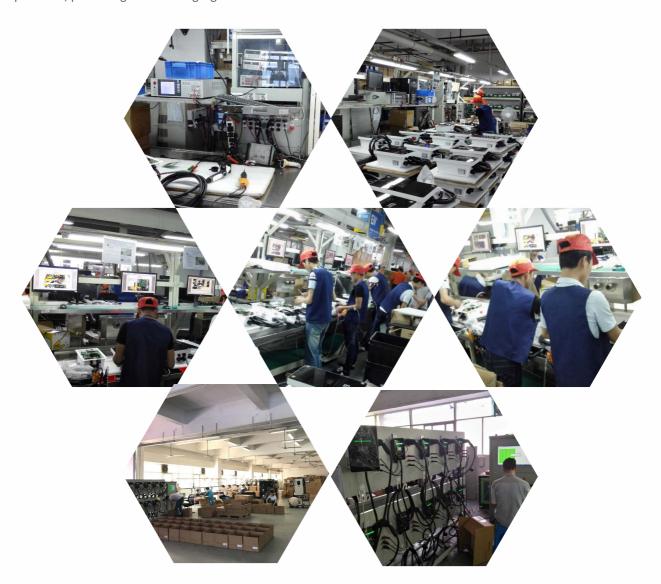


Company Introduction

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

Friendy Interface

Intuitive HMI with LED indictors.

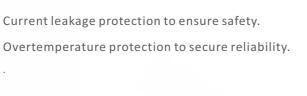
Bevel edge design for easy rolling of cables.

Robust and Durable

Anti-corrosion and weather proof.

IP65 protection grade for outdoor use stably.

Safe and Reliable







AC Single-phase 3KW Portable Charger

Specification	Model	AC3500-DE-00
	Phases / Lines	1 phase + neutral + PE
AC Nominal Input	Voltage	230 V ± 10%
	Frequency	50Hz
	Voltage	230 V ± 10%
AC Nominal Output	Current	13A
2 3.5 [2.5]	Power	3KW
	Housing Material	Plastic PC940
	LED Indicator	4 indicators
Structure Design	Power Cord Plug	Schuko
_ =====================================	Charging Outlet	One charging gun (Type 2)
	Cable Length	4M
	Operating Temperature	-30~+50℃
	Working Humidity	5%~95% without condensation
Environmental	Working Altitude	<2000M
Index	Protection Grade	IP65
	Application Site	Indoor/Outdoor
	Cooling Method	Natural cooling
	Multiple Protection	Over/Under voltage protection, Over/Under frequency protection, Over/Under temperature protection, Over current protection, Current leakage protection, Grounding protection
Security Protection	MTBF	100,000 hours
rotection	Safety Standard	IEC 61851-1: 2017, IEC 62196-2: 2016
	Warranty	2 years
	Product Dimension	195*74*47MM
	Package Demension	360*295*155MM
Package Information	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, specailly 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		
	Phases / Lines	1 phase + neutral + PE		
AC Nominal Voltage		230 V ± 10%		
·	Frequency	50Hz		
	Voltage	230 V ± 10%		
AC Nominal Output	Current	32A		
	Power	7KW		
	Housing Material	Plastic PC940		
	Installation Method	Wall-mount/Floor-stand		
	Wall-mount Bracket	Not necessary		
	Charging Outlet	One charging gun (Type 2)		
Structure	Cable Length	4M		
Design	LED Indicator	Green/yellow/red color for different status		
	LCD Screen	No		
	Emergency Stop Button	Yes		
	RFID Function	Yes		
	RFID Card	2pcs Mifare card		
	Operating Temperature	-30~+50°C		
	Working Humidity	5%~95% without condensation		
Environmental	Working Altitude	<2000M		
Index	Protection Grade	IP65		
	Application Site	Indoor/Outdoor		
	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		
Security Protection	MTBF	100,000 hours		
Trottettion	Safety Standard	IEC 61851-1: 2017, IEC 62196-2: 2016		
	Warranty	2 years		
	Product Dimension	233*150*69.5MM		
	Package Demension	480*340*135MM		
Package Information	Net Weight	3.6KG		
	Gross Weight	4.5KG		
	External Packing	Carton		













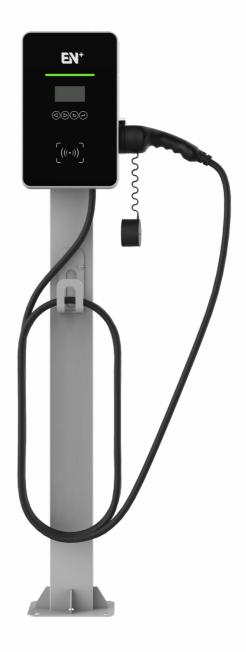
AC Single-phase 7KW Commercial Charger

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 detction, 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
	Phases / Lines	1 phase + neutral + PE
AC Nominal Input	Voltage	230 V ± 10%
	Frequency	50Hz
	Voltage	230 V ± 10%
AC Nominal Output	Current	32A
·	Power	7KW
	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
Structure	LED Indicator	Green/yellow/red color for different status
Design	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
	Operating Temperature	-30~+50°C
	Working Humidity	5%~95% without condensation
Environmental	Working Altitude	<2000M
Index	Protection Grade	IP54
	Application Site	Indoor/Outdoor
	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
Security Protection	MTBF	100,000 hours
rocconon	Safety Standard	IEC 61851-1: 2017, IEC 62196-2: 2016
	Warranty	2 years
	Product Dimension	356*221*136MM
	Package Demension	485*325*202MM
Package Information	Net Weight	3.0KG
	Gross Weight	4.5KG
	External Packing	Carton
	Network Gateway	Ethernet/3G/4G communication
	Communication Protocol	OCPP 1.6 (JSON)
0.11	Floor-stand Pillar	Galvanized steel
Optional Parts	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.

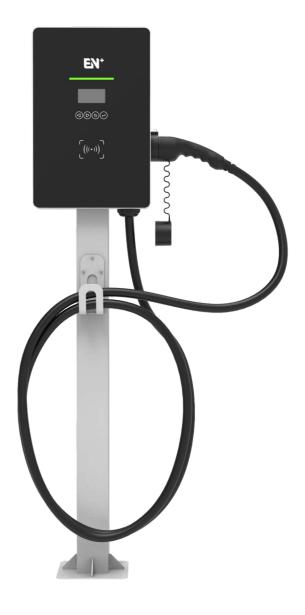
Compliant with the industrial standards, the charger use MID certified meter to ensure accuracy and built-in RCD to secure safety. The charger also includes 6mA DC leakage detction, which eliminates the need for an expensive upcost of RCD type B.

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
	Phases / Lines	3 phase + neutral + PE
AC Nominal Input	Voltage	400 V ± 10%
	Frequency	50Hz
	Voltage	400 V ± 10%
AC Nominal Output	Current	32A
·	Power	22KW
	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
Structure	LED Indicator	Green/yellow/red color for different status
Design	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
	Operating Temperature	-30 °C ~ +50 °C
	Working Humidity	5%~95% without condensation
Environmental	Working Altitude	<2000M
Index	Protection Grade	IP54
	Application Site	Indoor/Outdoor
	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
Security	MTBF	100,000 hours
Protection	Safety Standard	IEC 61851-1: 2017, IEC 62196-2: 2016
	Warranty	2 years
	Product Dimension	452*295*148MM
	Package Demension	560*380*210MM
Package Information	Net Weight	10KG
mormation	Gross Weight	12KG
	External Packing	Carton
	Network Gateway	Ethernet/3G/4G communication
	Communication Protocol	OCPP 1.6 (JSON)
Optional Parts	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

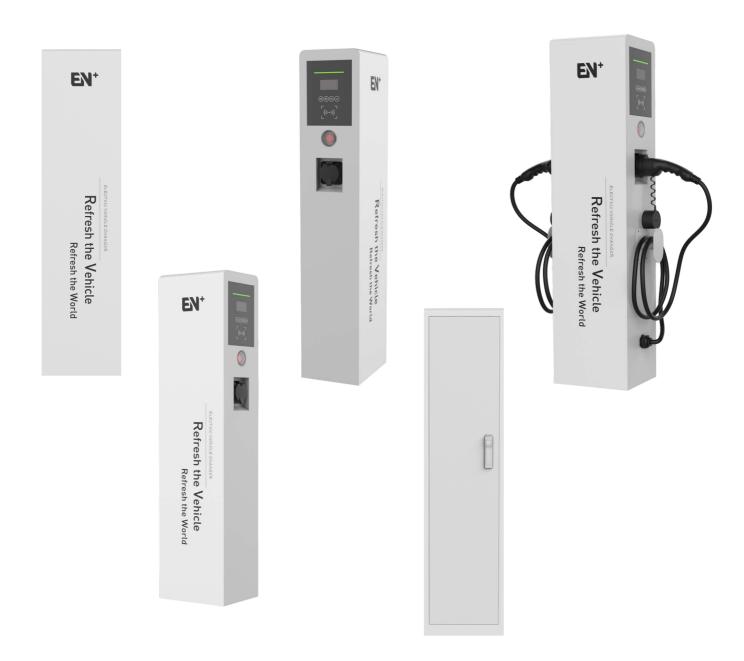


AC Three-phase 2x22KW Commercial Charger

2x22KW commercial charger is designed to have 2 outputs, able to charge two electric vehicles siumutaneously. 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 detction, 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
	Phases / Lines	3 phase + neutral + PE
AC Nominal Input	Voltage	400 V ± 10%
	Frequency	50Hz
	Voltage	400 V ± 10%
AC Nominal Output	Current	2x32A
o a cp a c	Power	2x22KW
	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
Structure	LCD Screen	Display of charging data
Design	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
	Working Humidity	5%~95% without condensation
	Working Altitude	<2000M
Environmental Index	Protection Grade	IP54
	Application Site	Indoor/Outdoor
	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
Security Protection	MTBF	100,000 hours
	Safety Standard	IEC 61851-1: 2017, IEC 62196-2: 2016
	Warranty	2 years
	Product Dimension	290*230*1200MM
	Package Demension	480*430*1320MM
Package Information	Net Weight	32.5KG
	Gross Weight	43.5KG
	External Packing	Wooden case
	Network Gateway	Ethernet/3G/4G communication
Ontional Barts	Communication Protocol	OCPP 1.6 (JSON)
Optional Parts	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.



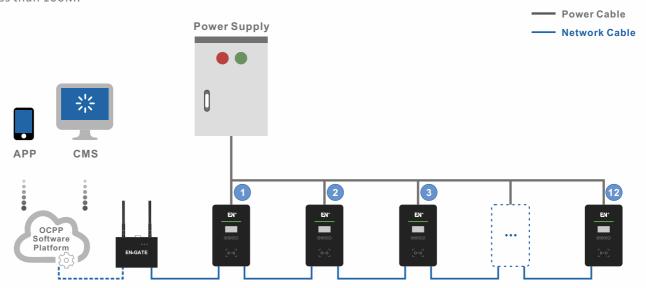


OCPP Gateway EN-GATE

Specification	Model	ENGATE-04-12
	Power Supply	CAN connection/External power
Electrical Parameter	Working Voltage	12V
	Working Current	500mA
	Housing Material	Galvanized steel
	Installation Method	Wall-mount/Built-in
Structure Design	LED Indicator	3 indicators
Structure Design	Platform	Linux system
	Maintenance Port	Micro USB, RS485
	Local Upgrade/Data Port	USB
	EN-GATE v.s. Charger	CAN
Communication	Max. Chargers (within 100M)	12pcs
Communication	EN-GATE v.s. Backend	Ethernet/3G/4G
	Communication Protocol	OCPP 1.6 (JSON)
	Working Temperature	-30 °C ~ +50 °C
Environmental Index	Protection Grade	IP21
	Application Site	Indoor
	Product Dimension	125*92*28MM
	Package Demension	243*131*70MM
Package Information	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 interferece and complete breakdown. Innovative and user friendly, the advertisement charger creates new business opportunity for EV charging service.





AC Single-phase 7KW Advertisement Charger

AC Nominal Input AC Nominal Input Frequency Frequency Voltage AC Nominal Output AC Nominal Output AC Nominal Output Power Displayer Size Displayer Scale Ac Solution Luminance Displayer Scale Parameter Parameter Network Communication Ads Upload Image Format Video Format Audio Format Housing Material Front Panel Installation Method Wall-mount Wall-mount Wall-mount Wall-mount Bracket Charging Outlet CLD Screen Emergency Stop Button RFID Card Operating Temper Sure For Sor Sor Sor Sor Sor Sor Sor Sor Sor S	Specification	Model	AC7000-EE-04
Input Frequency Frequency SOH2 Voltage 230 V ± 10% Current 32A Power 7KW Displayer Size Displayer Scale Resolution Luminance Parameter Parameter Network Communication Ads Upload USB flash disk, SD card, Internet remote upload Image Format Video Format Mp4, AVI, DIVX, XVID, VOB, DAT, MFG, RM, RMVB, MKB, MOV, HDMOV, M4V, PMP, AVC, FLV Audio Format Mp3, WMA, OGG, AAC, AC, DTS, FLAC, APE Housing Material Front Panel Installation Method Wall-mount Wall-mount Bracket Charging Outlet Charging Outlet CD Screen Emergency Stop Button RFID Function RFID Function RFID Card Operating Temperature Voltage Parameter Voltage Parameter Voltage Parameter Voltage Parameter SUBJECT Panel Front Panel Installation Method Wall-mount Vall-mount Ves Charging Outlet One charging gun (Type 2) Cable Length AM LED Indicator LCD Screen Emergency Stop Button RFID Function Pyes RFID Card Operating Temperature -20 °C ~ +50 °C Working Humidity Sw-95% without condensation Voltage Parameter Voltage 230 V ± 10% 32A		Phases / Lines	1 phase + neutral + PE
Frequency Voltage Voltage 230 V ± 10% Current 32A Power 7KW Displayer Size Displayer Scale Displayer Scale Resolution Luminance Parameter Parameter Network Communication Add Upload USB flash disk, SD card, Internet remote upload Image Format Video Format Audio Format Audio Format Housing Material Front Panel Installation Method Wall-mount Wall-mount Bracket Charging Outlet Charging Outlet Charging Outlet Charging Outlet RFID Function RFID Function RFID Function RFID Function RFID Card Operating Temperature Working Humidity Environmental Working Altitude Voltage 230 V ± 10% A2A A2A A2A A2A A2A A2A A2A A2A A2A A2		Voltage	230 V ± 10%
AC Nominal Output Power 7KW 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 PPEG, BMP, GIF, PNG Video Format Mp4, AVI, DIVX, XVID, VOB, DAT, MPG, RM, RMVB, MKB, MOV, HDMOV, M4V, PMP, AVC, FLV Audio 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 Housing Material Galvanized steel Temper glass Installation Method Wall-mount Wall-mount Bracket Yes Charging Outlet One charging gun (Type 2) Structure Design Cable Length 4M LED Indicator Green/yellow/red color for different status LCD Screen Bisplay of charging data Emergency Stop Button Yes RFID Card 2pcs Mifare card Operating Temperature -20 °C ~+50 °C Working Humidity S%~95% without condensation Working Altitude <<2000M	mpat	Frequency	50Hz
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Power 7KW Displayer Size 32 inch Displayer Scale 16:9 vertically Resolution 1920*1080 Luminance 300cd/m2 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 Housing Material Galvanized steel Front Panel Temper glass Installation Method Wall-mount Wall-mount Bracket Yes Charging Outlet One charging gun (Type 2) Structure Design Cable Length AM LED Indicator Green/yellow/red color for different status LCD Screen Display of charging data Emergency Stop Button Yes RFID Card 2pcs Mifare card Operating Temperature -20 °C ~+50 °C Working Humidity S%~95% without condensation Environmental Working Altitude <<2000M		Current	32A
Displayer Scale Resolution Luminance Displayer Parameter Parameter Parameter Parameter Parameter Parameter Parameter Parameter Network Communication 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 Adsuppose Housing Material Front Panel Installation Method Wall-mount Bracket Charging Outlet One charging gun (Type 2) Structure Design Cable Length Adsuppose Green/yellow/red color for different status LCD Screen Emergency Stop Button Find Function RFID Card Operating Temperature Operating Temperature -20 °C ~ +50 °C Working Humidity Sw~95% without condensation Environmental Environmental Working Altitude Vandroid A. a above system Android 4.3 above system Parameter Android 4.3 above system Android 4.3 above system Android 4.3 above system Android 4.3 above system Android 4.3 above system Android 4.3 above system Android 4.3 above system Android 4.3 above system Android 4.3 above system An	Juiput	Power	7KW
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 Housing Material Galvanized steel Front Panel Temper glass Installation Method Wall-mount Wall-mount Bracket Yes Charging Outlet One charging gun (Type 2) Structure Design 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 Function Yes RFID Card 2pcs Mifare card Operating Temperature -20 °C ~ +50 °C Working Humidity S%~95% without condensation Environmental Environmental Working Altitude < 2000M		Displayer Size	32 inch
Displayer Parameter Parameter Parameter Platform Network Communication Ads Upload Image Format Video Format Audio Format Audio Format Audio Format Housing Material Front Panel Installation Method Wall-mount Wall-mount Bracket Charging Outlet Charging Outlet Cable Length LED Indicator LCD Screen Emergency Stop Button RFID Function RFID Function RFID Card Operating Temperature Working Altitude Platform Android 4.3 above system Android 4.3 above system Ethernet/WIFI Android 4.3 above system Android 4.3 above system Ethernet/WIFI Android 4.3 above system Bethernet/WIFI Android 4.3 above system Byse, Bethernet/WIFI Android 4.3 above system Byse, Bethernet/WIFI Android 4.3 above system Bethernet/WIFI Android 4.3 above system Byse, Bethernet/WIFI Android 4.2 above, Android 4.3 above system Byse, Bethernet/WIFI Android 4.2 above, An		Displayer Scale	16:9 vertically
Displayer Parameter Platform Network Communication Ads Upload USB flash disk, SD card, Internet remote upload Image Format 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 Housing Material Front Panel Installation Method Wall-mount Wall-mount Bracket Charging Outlet One charging gun (Type 2) Cable Length LED Indicator LCD Screen Display of charging data Emergency Stop Button Yes RFID Function Yes RFID Function Yes RFID Card Operating Temperature -20 °C ~ +50 °C Working Humidity Working Altitude < 2000M		Resolution	1920*1080
Parameter Network Communication Ads Upload USB flash disk, SD card, Internet remote upload Image Format Video Format Mp4, AVI, DIVX, XVID, VOB, DAT, MPG, RM, RMVB, MKB, MOV, HDMOV, M4V, PMP, AVC, FLV Audio Format Housing Material Front Panel Iremper glass Installation Method Wall-mount Wall-mount Bracket Charging Outlet One charging gun (Type 2) Structure Design Cable Length LED Indicator Green/yellow/red color for different status LCD Screen Display of charging data Emergency Stop Button RFID Function RFID Card Operating Temperature -20 °C ~ +50 °C Working Humidity Working Altitude < 2000M		Luminance	300cd/m2
Parameter Network Communication Ads Upload USB flash disk, SD card, Internet remote upload Image Format 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 Housing Material Front Panel Installation Method Wall-mount Wall-mount Bracket Charging Outlet Charging Outlet One charging gun (Type 2) Structure Design Cable Length LED Indicator LCD Screen Display of charging data Emergency Stop Button Yes RFID Card Operating Temperature Operating Temperature Working Humidity Working Altitude < 2000M THE HEAD AND AND AND AND AND AND AND AND AND A	Displayer	Platform	Android 4.3 above system
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Audio Format Housing Material Front Panel Installation Method Wall-mount Wall-mount Bracket Charging Outlet Charging Outlet One charging gun (Type 2) Structure Design Cable Length LED Indicator CCD Screen Brid Function RFID Function RFID Card Operating Temperature Working Humidity Environmental Mall-mount Wall-mount Wall-mount Wall-mount Wall-mount AM Cone charging gun (Type 2) AM AM Green/yellow/red color for different status Display of charging data Yes RFID Card Operating Temperature -20 °C ~ +50 °C Working Humidity S%~95% without condensation Environmental		Image Format	JPEG, BMP, GIF, PNG
Housing Material Front Panel Temper glass Installation Method Wall-mount Wall-mount Bracket Charging Outlet One charging gun (Type 2) Structure Design 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 Operating Temperature Operating Temperature Working Humidity S%~95% without condensation Vall-mount Temper glass Galvanized steel Temper glass Yes 2 One charging gun (Type 2) 4M Yes Front Panel Temper data Yes Serior Structure Design Application Yes RFID Function Yes RFID Card Special Symptomic Condensation Vorking Humidity S%~95% without condensation Service Structure Design Application Symptomic Symptomi		Video Format	Mp4, AVI, DIVX, XVID, VOB, DAT, MPG, RM, RMVB, MKB, MOV, HDMOV, M4V, PMP, AVC, FLV
Front Panel Installation Method Wall-mount Wall-mount Bracket Yes Charging Outlet One charging gun (Type 2) Structure Design Cable Length LED Indicator Green/yellow/red color for different status LCD Screen Display of charging data Emergency Stop Button Yes RFID Function Yes RFID Card Operating Temperature -20 °C ~+50 °C Working Humidity Sw~95% without condensation Environmental Vall-mount Working Altitude Temper glass Yes 4M April Type 2) April		Audio Format	Mp3, WMA, OGG, AAC, AC, DTS, FLAC, APE
Installation Method Wall-mount Bracket Yes Charging Outlet One charging gun (Type 2) Structure Design Cable Length LED Indicator Green/yellow/red color for different status LCD Screen Display of charging data Emergency Stop Button Yes RFID Function Yes RFID Card Operating Temperature Operating Temperature Working Humidity Working Altitude Ves Working Altitude <a hre<="" td=""><td></td><td>Housing Material</td><td>Galvanized steel</td>		Housing Material	Galvanized steel
Wall-mount Bracket Charging Outlet One charging gun (Type 2) Structure Design Cable Length 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 Operating Temperature -20 °C ~ +50 °C Working Humidity Sw~95% without condensation Environmental Working Altitude Yes 2cooo Vocation Company		Front Panel	Temper glass
Charging Outlet Charging Gun (Type 2) Cable Length LED Indicator Choreen/yellow/red color for different status LCD Screen Display of charging data Emergency Stop Button RFID Function RFID Card Operating Temperature Operating Temperature Working Humidity Temperature Structure Design AM Oreen/yellow/red color for different status Pes Display of charging data Yes RFID Card Operating Temperature -20 °C ~ +50 °C Working Humidity S%~95% without condensation Environmental	Structure Design	Installation Method	Wall-mount
Structure Design Cable Length LED Indicator Green/yellow/red color for different status LCD Screen Display of charging data Emergency Stop Button Yes RFID Function Yes RFID Card Operating Temperature Operating Temperature Environmental Working Altitude 4M Green/yellow/red color for different status Display of charging data Yes 2pcs Mifare card -20 °C ~ +50 °C Working Humidity 5%~95% without condensation		Wall-mount Bracket	Yes
LED Indicator Green/yellow/red color for different status LCD Screen Display of charging data Emergency Stop Button Yes RFID Function RFID Card Operating Temperature Operating Temperature Environmental Working Altitude Green/yellow/red color for different status John Color of Charging data Yes 2pcs Mifare card -20 °C ~ +50 °C 5%~95% without condensation			



DC 20KW Wall-mount Charger

Wall-mount DC charger is designed for priviate use, providing fast charging for electrict 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		
	Phases / Lines	3 phase + neutral + PE		
AC Nominal Input	Voltage	400 V ± 10%		
·	Frequency	50Hz		
	Voltage	200~750V		
DC Nominal Output	Current	Max. 33A		
·	Power	20KW		
	Power Factor	≧0.99 (50%~100% load)		
	THD Value	≦5% (50%~100% load)		
Electrical	Stable Voltage Accuracy	≦±0.5%		
Parameter	Stable Current Accuracy	≦±1%		
	Efficiency	Max. 95%		
	Auxiliary Power	12V		
	Housing Material	Galvanized steel		
	Installation Method	Wall-mount		
	Wall-mount Bracket	Yes		
	Charging Outlet	One charging gun (CCS Combo 2)		
Structure Design	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)		
	Operating Temperature	-30 °C ~ +50 °C		
	Working Humidity	5%~95% without condensation		
	Working Altitude	<2000M		
Environmental Index	Protection Grade	IP54		
acx	Application Site	Indoor/Outdoor		
	Cooling Method	Fan cooling		
	Noise	≦60dB		
	Multiple Protection	Over/Under voltage protection, Overload protection, Short circuit protection, Over/Under temperature protection, Grounding protection, Surge protection		
Security Protection	MTBF	100,000 hours		
Totection	Safety Standard	IEC 61851-1: 2017, IEC 61851-23: 2014		
	Warranty	1 year		
	Product Dimension	426*163*566MM		
	Package Demension	510*240*645MM		
Package Information	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 simutaneously 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
	Phases / Lines	3 phase + neutral + PE
AC Nominal Input	Voltage	400 V ± 10%
mpac	Frequency	50Hz
	Voltage	200~750V
DC Nominal Output	Current	80A
5 5 5 6 5 5 5	Power	60KW
	Power Factor	≧0.99 (50%~100% load)
	THD Value	≦5% (50%~100% load)
Electrical	Stable Voltage Accuracy	≦±0.5%
Parameter	Stable Current Accuracy	≦±1%
	Efficiency	Max. 94%
	Auxiliary Power	12V
	Housing Material	Galvanized steel
	Installation Method	Floor-stand
	Charging Outlet	One/Two charging guns (CCS Combo 2)
	Cable Length	4M
Structure Design	LED Indicator 3 indicators	3 indicators
2 23.8	LCD Screen	Daylight readable touchscreen
	Emergency Stop Button	Yes
	Startup Mode	Plug-and-play/RFID Card/QR Code
	RFID Function	Optional
	Charger v.s. EV	PLC (DIN 70121: 2014-12)
Communication	EN-GATE v.s. Charger	CAN
Communication	EN-GATE v.s. Backend	Ethernet/3G/4G
	Communication Protocol	OCPP 1.6 (JSON)
	Operating Temperature	-30 °C ~ +50 °C
	Working Humidity	5%~95% without condensation
	Working Altitude	<2000M
Environmental Index	Protection Grade	IP54
	Application Site	Indoor/Outdoor
	Cooling Method	Fan cooling Fan cooling
	Noise	≦60dB
	Multiple Protection	Over/Under voltage protection, Overload protection, Short circuit protection, Over/Under temperature protection, Grounding protection, Surge protection
Security Protection	MTBF	100,000 hours
FIOLECTION	Safety Standard	IEC 61851-1: 2017, IEC 61851-23: 2014
	Warranty	1 year
	Product Dimension	700*280*1600mm
	Package Demension	800*380*1800MM
Package Information	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.



⇒ভূ ← 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.



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 waveby-wave current limit protection and LLC resonant cavity over current protection (patented technology), providing reliable technical support for the operation of power modules.

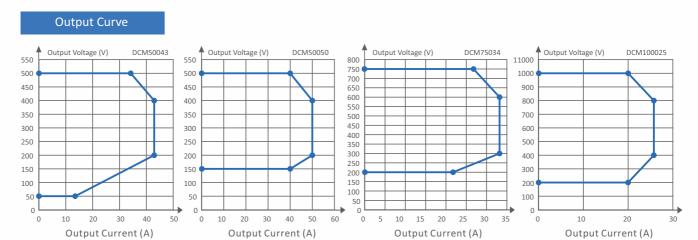


Power Module

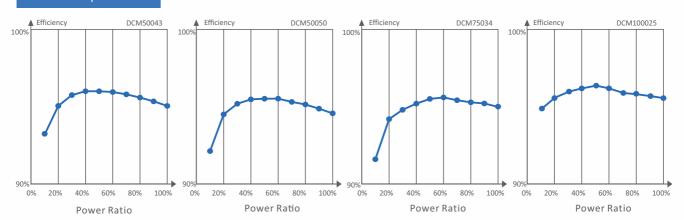
Ratings	Specification	Model	DCM50043	DCM50050	DCM75034	DCM100025
Rated Voltage Range 260°470Vac	Ratings	Basic Parameter	17KW/500V	20KW/500V	20KW/750V	20KW/1000V
Voltage Range 260~470Vac		Phases / Lines		3 phas	se + PE	
Full-load Voltage Rated Frequency Range Rated Frequency So/60Hz Frequency Range Standby Power Sleep Mode Power THD Value Power Factor Power Factor Startup Inrush Current Startup Inrush Inrush Inrush Startup Inrush Current Startup Inrush Current Start		Rated Voltage		400	Vac	
Rated Frequency		Voltage Range		260~4	70Vac	
AC Nominal Input Standby Power C2W		Full-load Voltage		323~4	70Vac	
Input		Rated Frequency		50/6	50Hz	
Sleep Mode Power C2W	AC Nominal	Frequency Range		47~6	53Hz	
THD Value \$33% (100% rated output load) Power Factor \$≥0.99 (25%-100% rated output load) Current \$34A\$ \$\gequiv{40A}\$ Startup Inrush Current \$\gequiv{38A}\$ \$\gequiv{44A}\$ Rated Voltage \$500V \$500V \$750V \$1000V \$\gequiv{40A}\$ Rated Current \$34A \$40A \$26.7A \$20A \$\gequiv{40A}\$ Voltage Range \$50~500V \$150~500V \$200~750V \$200~1000V \$\gequiv{40A}\$ Max. Current \$42.5A \$50A \$33.3A \$25A \$\gequiv{40A}\$ Max. Power \$17KW\$ \$20KW \$\gequiv{40A}\$ Efficiency \$96% (Max) \$\gequiv{40A}\$ Stable Voltage Accuracy \$\gequiv{41B}\$ Stable Voltage Accuracy \$\gequiv{41B}\$ Voltage Deviation \$\gequiv{41B}\$ Current Deviation \$\gequiv{41B}\$ Ripple Factor \$\gequiv{41B}\$ Ripple Factor \$\gequiv{41B}\$ Power Overshoot \$\gequiv{41B}\$ Soft Start Time \$\gequiv{41B}\$ Power Overshoot \$\gequiv{41B}\$ No overshoot \$\gequiv{41B}\$ Communication Flow \$\g	Input	Standby Power		<8	W	
Power Factor ≥ 0.99 (25%-100% rated output load) Current ≤ 34A ≤ 40A Startup Inrush Current ≤ 38A ≤ 44A 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 Stable Voltage Accuracy 96% (Max) Stable Voltage Accuracy ≤ ±0.5% Stable Current Accuracy ≤ ±1% Voltage 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) Soft Start Time 35°85 Power Overshoot No overshoot Sleep Function Yes Communication Flow Manual allocation and auotomatic allocation Communication Protocol CAN Communication Protocol CAN Communication Protocol CAN Communication Protocol CAN Storage Temperature -30 °C ~ +70 °C (Derating above 55 °C) Full-load Working Temperature -40 °C ~ +85 °C Working Humidity S%*95% without condensation Environmental Working Altitude < 2000M		Sleep Mode Power		<2	W	
Current ≤34A ≤44A Startup Inrush Current ≤38A ≤44A 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 DC Nominal Output Stable Voltage Accuracy 5table Current Accurac		THD Value		≦3% (100% rat	ed output load)	
Startup Inrush Current \$38A \$44A \$1000V \$500V \$750V \$1000V \$10000V \$10000V \$10000V \$10000V \$1000V \$1000V \$1000V \$1000V \$1000V \$1000V \$1		Power Factor		≥0.99 (25%-100%	rated output load)	
Rated Voltage		Current	≦34A		≦40A	
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 Stable Voltage Accuracy 96% (Max) Stable Voltage Accuracy \$\leq \pmotsup{\pmo		Startup Inrush Current	≦38A		≦44A	
Voltage Range S0~500V 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) Soft Start Time 35~8S Power Overshoot No overshoot Sleep Function Yes Communication Flow Manual allocation and auotomatic allocation Communication Protocol CAN Operating Temperature −30 °C ~+70 °C (Derating above 55 °C) Full-load Working Temperature −30 °C ~+50 °C Storage Temperature −40 °C ~+85 °C Working Humidity 5%~95% without condensation Environmental Working Altitude <2000M		Rated Voltage	500V	500V	750V	1000V
Max. Current 42.5A 50A 33.3A 25A		Rated Current	34A	40A	26.7A	20A
Max. Power 17KW 20KW		Voltage Range	50~500V	150~500V	200~750V	200~1000V
DC Nominal Output Stable Voltage Accuracy Stable Voltage Accuracy Stable Current Deviation Stable Current Imbalance Stable Communication Current Imbalance Stable Communication Deviation Stable Current Imbalance Stable Current Imbalance Stable Communication Flow Stable Current Imbalance Stable Curren		Max. Current	42.5A	50A	33.3A	25A
Output Stable Voltage Accuracy ≤±0.5% Stable Current Accuracy ≤±1.6 Voltage Deviation ≤±0.5% Current Deviation ≤±0.1A, Load current <10A; ≤±1%, Load current ≥10A		Max. Power	17KW		20KW	
Stable Current Accuracy Stable Current Accuracy Voltage Deviation Current Deviation Ripple Factor Peak coefficient <1/0, RMS coefficient <0.5% Current Imbalance Soft Start Time Soft Start Time Power Overshoot Sleep Function Design Communication Flow Communication Flow Manual allocation and auotomatic allocation Communication Protocol Operating Temperature -30 °C ~ +70 °C (Derating above 55 °C) Full-load Working Temperature Storage Temperature -40 °C ~ +85 °C Working Humidity Working Altitude Voltage Deviation ≤±1% Peab (55%) Storage Temperature -40 °C ~ +85 °C Working Altitude √2000M	DC Nominal	Efficiency		96% ((Max)	
Voltage Deviation Current Deviation Ripple Factor Peak coefficient <1%, RMS coefficient <0.5% Current Imbalance Soft Start Time Power Overshoot Sleep Function Design Communication Flow Communication Protocol Operating Temperature Storage Temperature Working Humidity Working Altitude Ves ±0.1A, Load current <10A; ≤±1%, Load current ≥10A Peak coefficient <10A; RMS coefficient <0.5% Peak coefficient <10A; RMS coefficient <0.5% Peak coefficient <10A; RMS coefficient <0.5% No overshoot No overshoot No overshoot Yes Communication Flow Manual allocation and auotomatic allocation CAN -30 °C ~+70 °C (Derating above 55 °C) Full-load Working Temperature -40 °C ~+85 °C Working Humidity S%~95% without condensation Working Altitude	Output	Stable Voltage Accuracy		≤±	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) Soft Start Time 35~85 Power Overshoot No overshoot Sleep Function Design Communication Flow Manual allocation and auotomatic allocation Communication Protocol Operating Temperature −30 °C ~ +70 °C (Derating above 55 °C) Full-load Working Temperature −30 °C ~ +50 °C Storage Temperature −40 °C ~ +85 °C Working Humidity 5%~95% without condensation Environmental Working Altitude <2000M		Stable Current Accuracy		≤ ±	1%	
Ripple Factor Peak coefficient <1%, RMS coefficient <0.5% Current Imbalance \$5% (50%-100% Load) Soft Start Time 35~85 Power Overshoot No overshoot Sleep Function Yes Communication Flow Manual allocation and auotomatic allocation Communication Protocol CAN Operating Temperature -30 °C ~ +70 °C (Derating above 55 °C) Full-load Working Temperature -40 °C ~ +85 °C Working Humidity 5%~95% without condensation Environmental Ripple Factor Peak coefficient <1%, RMS coefficient <0.5% Soft Start Time 35~85 No overshoot No overshoot Yes Can Can Can Can Can Can Can Ca		Voltage Deviation		≤±	.5%	
Current Imbalance \$\leq 5\% (50\%-100\% Load)\$ Soft Start Time \$\leq 35\cap 8S\$ Power Overshoot No overshoot Sleep Function Yes Communication Flow Manual allocation and auotomatic allocation Communication Protocol Operating Temperature \$-30\cap C\cap +70\cap C\$ (Derating above 55\cap C) Full-load Working Temperature \$-30\cap C\cap +85\cap C\$ Working Humidity \$5\cap 95\cap without condensation Working Altitude \$\leq 2000M\$		Current Deviation	≦ ±(0.1A, Load current <10A	; ≦±1%, Load current ≩	≧10A
Function Design Communication Flow Communication Protocol Operating Temperature Full-load Working Temperature Storage Temperature Working Humidity Working Altitude Soft Start Time 35~85 No overshoot No overshoot No overshoot Manual allocation and auotomatic allocation CAN -30 °C ~ +70 °C (Derating above 55 °C) Full-load Working Temperature -40 °C ~ +85 °C Working Humidity 5%~95% without condensation Variable Altitude		Ripple Factor		Peak coefficient <1%,	RMS coefficient <0.5%	
Function Design Communication Flow Communication Protocol Operating Temperature Full-load Working Temperature Storage Temperature Environmental Power Overshoot No overshoot Yes Manual allocation and auotomatic allocation CAN -30 °C ~ +70 °C (Derating above 55 °C) Full-load Working Temperature -30 °C ~ +50 °C -40 °C ~ +85 °C Working Humidity 5%~95% without condensation Verking Altitude (2000M		Current Imbalance		≤5% (50%-	100% Load)	
Function Design Communication Flow Communication Protocol Operating Temperature Full-load Working Temperature Sleep Function CAN -30 °C ~ +70 °C (Derating above 55 °C) Full-load Working Temperature -30 °C ~ +50 °C Storage Temperature -40 °C ~ +85 °C Working Humidity Sw~95% without condensation Working Altitude (2000M)		Soft Start Time		3S ²	~8S	
Function Design Communication Flow Communication Protocol Operating Temperature Full-load Working Temperature Storage Temperature Working Humidity Manual allocation and auotomatic allocation CAN -30 °C ~ +70 °C (Derating above 55 °C) Full-vertical Canada Can		Power Overshoot		No ove	rshoot	
Design Communication Flow Communication Protocol Operating Temperature Full-load Working Temperature Storage Temperature Environmental Communication Flow Manual allocation and auotomatic allocation CAN -30 °C ~ +70 °C (Derating above 55 °C) -30 °C ~ +50 °C -40 °C ~ +85 °C Working Humidity 5%~95% without condensation (2000M	F + i	Sleep Function		Ye	es	
Operating Temperature -30 °C ~ +70 °C (Derating above 55 °C) Full-load Working Temperature -30 °C ~ +50 °C Storage Temperature -40 °C ~ +85 °C Working Humidity 5%~95% without condensation Environmental Working Altitude < 2000M		Communication Flow		Manual allocation and	auotomatic allocation	
Full-load Working Temperature Storage Temperature Working Humidity The storage Temperature Working Humidity The storage Temperature Storage Temperatur		Communication Protocol		CA	AN	
Storage Temperature -40 °C ~ +85 °C Working Humidity 5%~95% without condensation Environmental Working Altitude <2000M		Operating Temperature		−30 °C ~ +70 °C (De	rating above 55 °C)	
Working Humidity 5%~95% without condensation Environmental Working Altitude <2000M		Full-load Working Temperature		−30 °C °	~+50 °C	
Environmental Working Altitude <2000M		Storage Temperature		-40 °C °	~+85 °C	
Livioniienta		Working Humidity		5%~95% withou	ut condensation	
Index Protection Grade IP20	Environmental	Working Altitude		<20	M00	
	Index	Protection Grade		IP:	20	
Cooling Method Fan cooling		Cooling Method				
Noise ≦ 60dB (25 °C@380Vac, full-load output)		Noise		≦60dB (25 °C@380\	/ac, full-load output)	
Multiple Protection Over/Under voltage protection, Output current limit protection, Output short circuit protection, Surge protection, Over/Under temperature protection		Multiple Protection				short circuit protection,
Security MTBF 100,000 hours		MTBF		100,000	0 hours	
Safety Standard NB 33008.1; GB 18487; EN 61851-23	Trottection	Safety Standard		NB 33008.1; GB 18	487; EN 61851-23	
Warranty 2 years		Warranty		2 ye	ears	



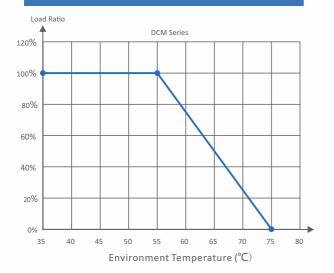
Power Module



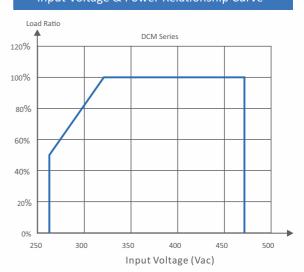
Efficiency Curve







Input Voltage & Power Relationship Curve

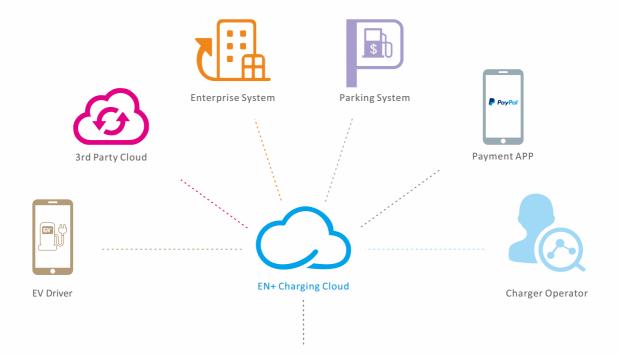


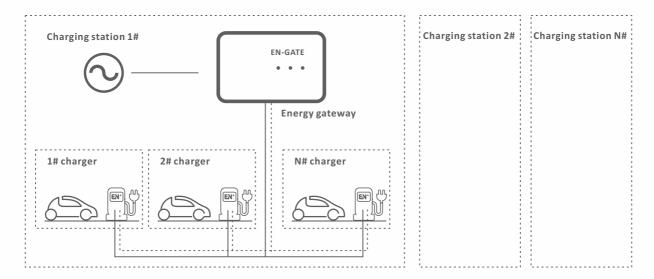


Charging Cloud Platform

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.



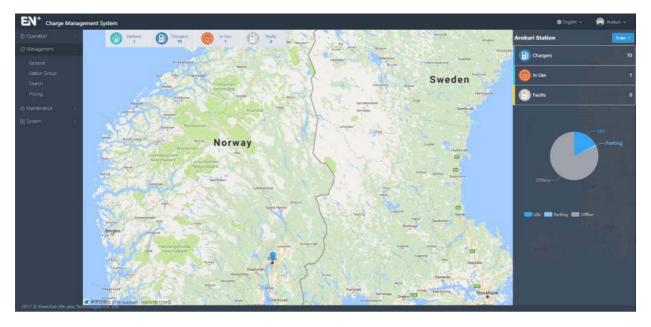


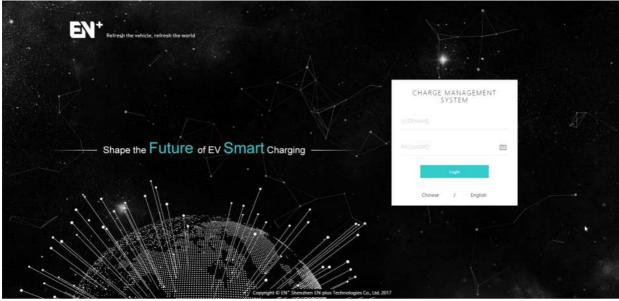


Charging Management System

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 orparking 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 Dianostics:** 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.





Online Location Search

Quick search for charging facilities available



Space Reservation

Efficient allocation system ensure successful reservation



Real Time MonitoringPower consumption,

Real time charge usage



Efficient Allocation

Automatically allocate next available slot



Mobile Payment

Flexible payment options, like PayPal



Auto Billing

Secure billing through registered account



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.







	(3)	
DHA	RGING DETAIL	
0	Status	Charging
(1)	Charging Time	10 minute(s)
0	Electricity	1.900kWh
B	Charging Cost	2.94 Euro
(1)	Parking Time	0 minute(s)
B	Parking Cost	0.00 Euro
CHAI	IGER INFORMATION	
P	Address	深圳市
(G)	Туре	Standard 1-Phase AC
0	Decition	mia

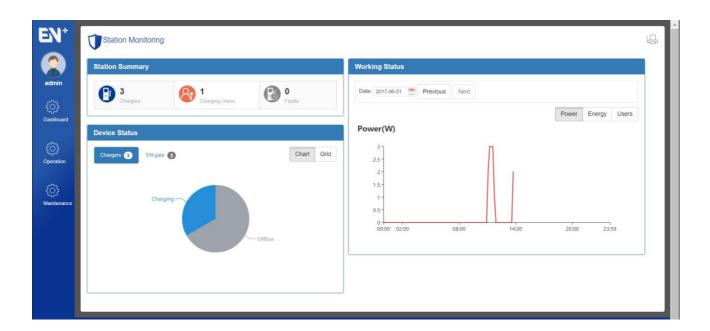
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7 PQR	s	8 TUV	9 wxvz
		0	⊗

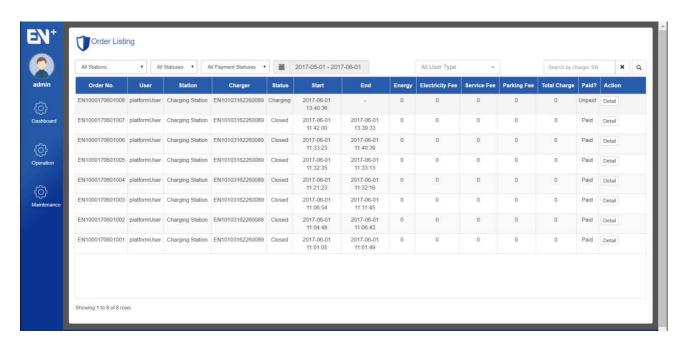


LAN Charge Management System

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

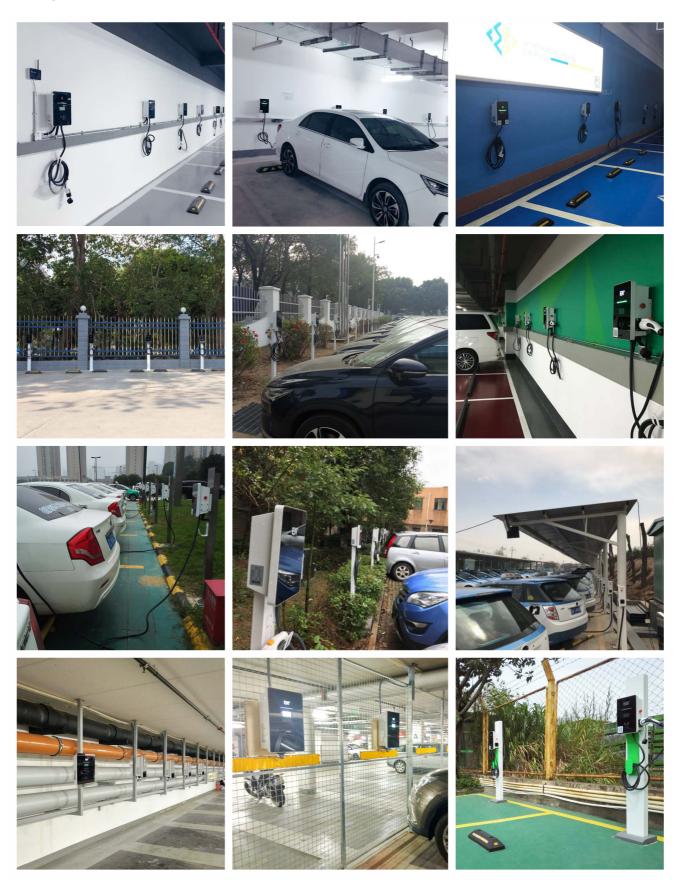
The software is set up in a personal computer connected to EV chargers via network cables, putting the chargers under system management. Only the person operating in the computer can monitor and control the chargers.







Project Cases





Project Cases

























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