

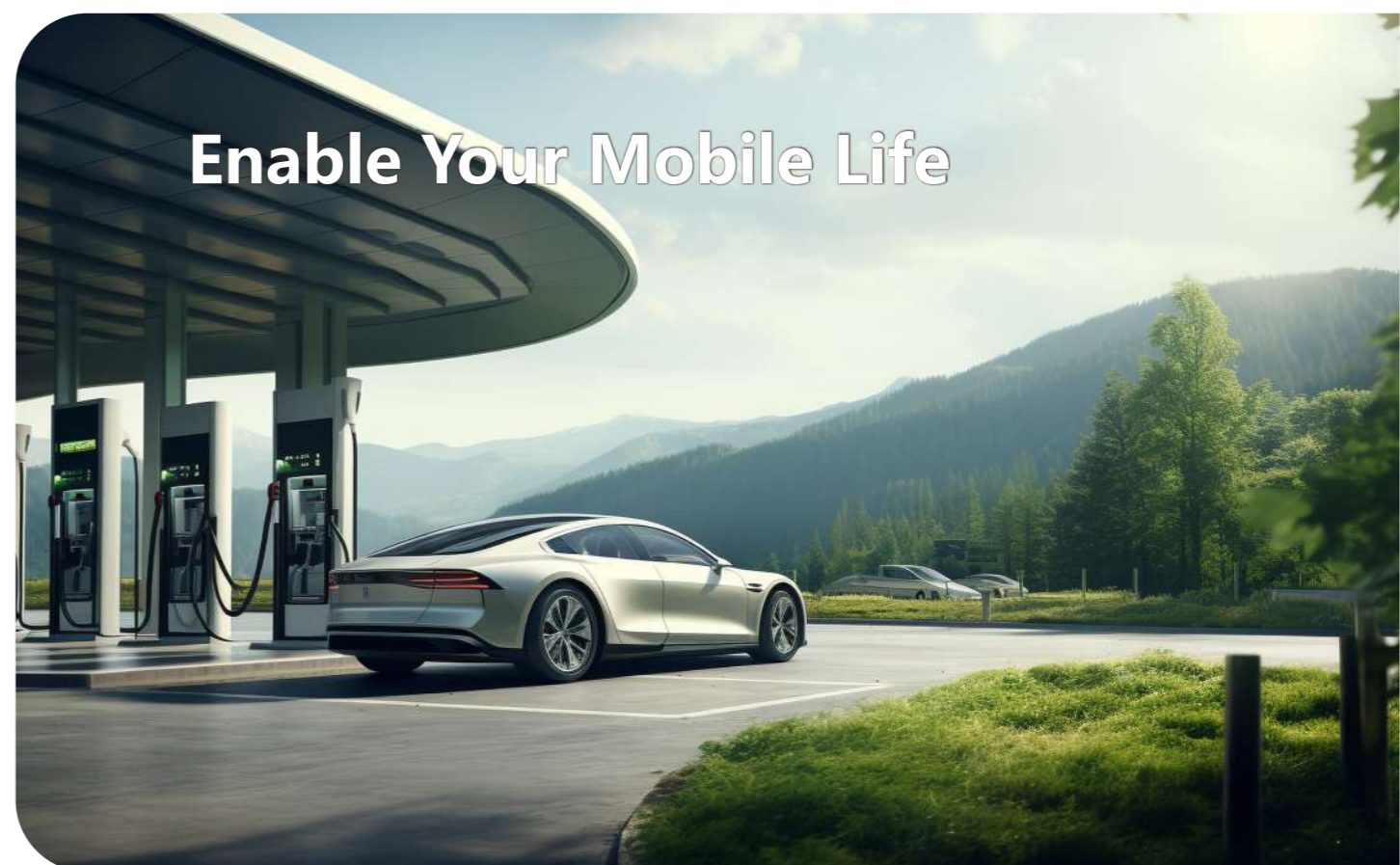


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EV Charger Overview

- 01 — Mobile Travel "New Infrastructure"
- 02 — Overall Solution For Charging System
- 03 — Charging Gun Specifications

Portable Charging

- 04 — Portable EV Charger

AC Charging

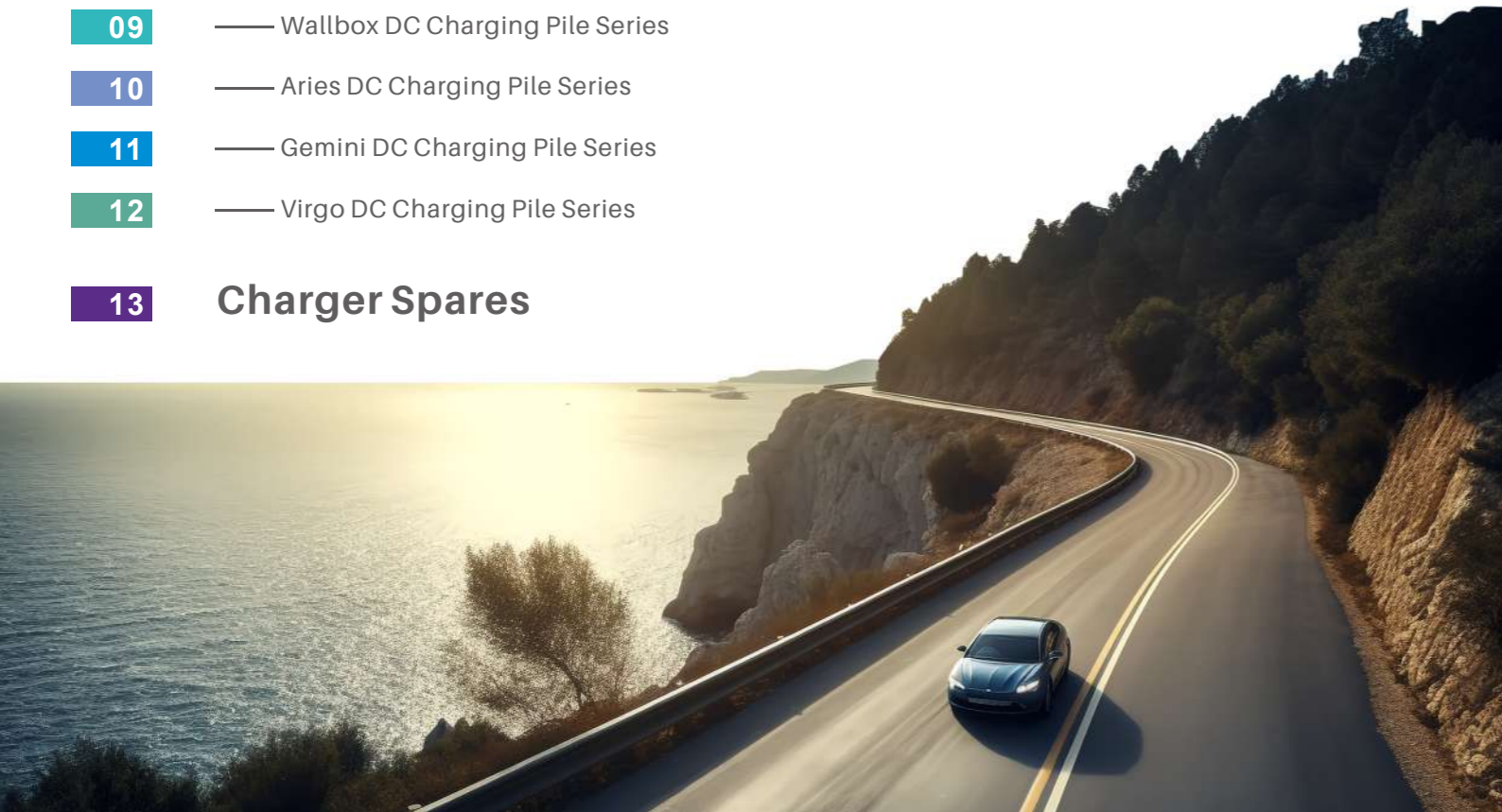
- 05 — Capricornus Wallbox EV Charger
- 06 — Aquarius Wallbox EV Charger
- 07 — Sagittarius Wallbox EV Charger
- 08 — Wallbox Dual EV Charger

DC Charging

- 09 — Wallbox DC Charging Pile Series
- 10 — Aries DC Charging Pile Series
- 11 — Gemini DC Charging Pile Series
- 12 — Virgo DC Charging Pile Series

Charger Spares

13



Mobile Travel "new Infrastructure": Three-dimensional, All-round Charging Network

With The Sales Penetration Rate Of Electric Vehicles Exceeding 20%, The Electrification Era Of Automobiles Has Officially Entered A Stage Of Explosive Growth. The Accompanying Change Is That Charging Piles No Longer Rely On Vehicles, But Become An Independent Part Of The City's "Infrastructure". The Role Of Charging Piles Has Officially Shifted From "supporting Role" To "c Position".

Network Architecture Of Multi-level Charging Facilities For Electric Vehicles:

1. Charging Based On Homes And Workplaces: Mainly Ac Low Power (less Than 22kw), Shallow Charging And Shallow Discharge Mode, Meeting 80-90% Of Electric Vehicle Use: Commuting And Other Daily Life Travel;
2. Charging Piles In Public Facilities And Commercial Places: For Temporary Power Replenishment For Passing Customers, Low-power And Medium-power Charging Piles (less Than 50kw), Ac And Dc Are Generally Used;
3. Commercially Operated Super Charging Stations: Service Stations Positioned To Quickly Replenish Power For Commercially Operated Vehicles And Long-distance Travelers. They All Use Dc High-power Fast Charging, Which Can Quickly Restore The Energy Of An Electric Vehicle During A Long-distance Trip. Generally Built In Places With Convenient Transportation;
4. Open And Interconnected Charging Facility Network: Charging Devices Based On Wireless Communication Realize Information Interconnection And Interoperability Through The Voluntary Principle, And Are Open To All Electric Vehicles Using A Shared Charging Model To Provide Maximum Convenience For Electric Travel;
5. Portable Portable Charging Device "portable Charger": Portable Charger Is The "insurance Policy" For Electric Vehicle Owners. It Is Generally A Low-power Ac Charger That Can Be Flexibly Connected To General Electricity Facilities (ordinary Sockets) And Can Be Used In All-weather Environments (Waterproof, Pressure-resistant), Carry It With You In The Car To Meet Contingencies. It Can Also Be Used As An Official Power Supply Device During Long-distance Travel (during Parking).



Residential, workplace, business district
Equipment: Low Power AC Charging
Features: High Density, Convenience, Usability



Bus, taxi, power supply station, highway rest stop
Equipment: high-power AC, DC charging
Features: low density, speed, safety

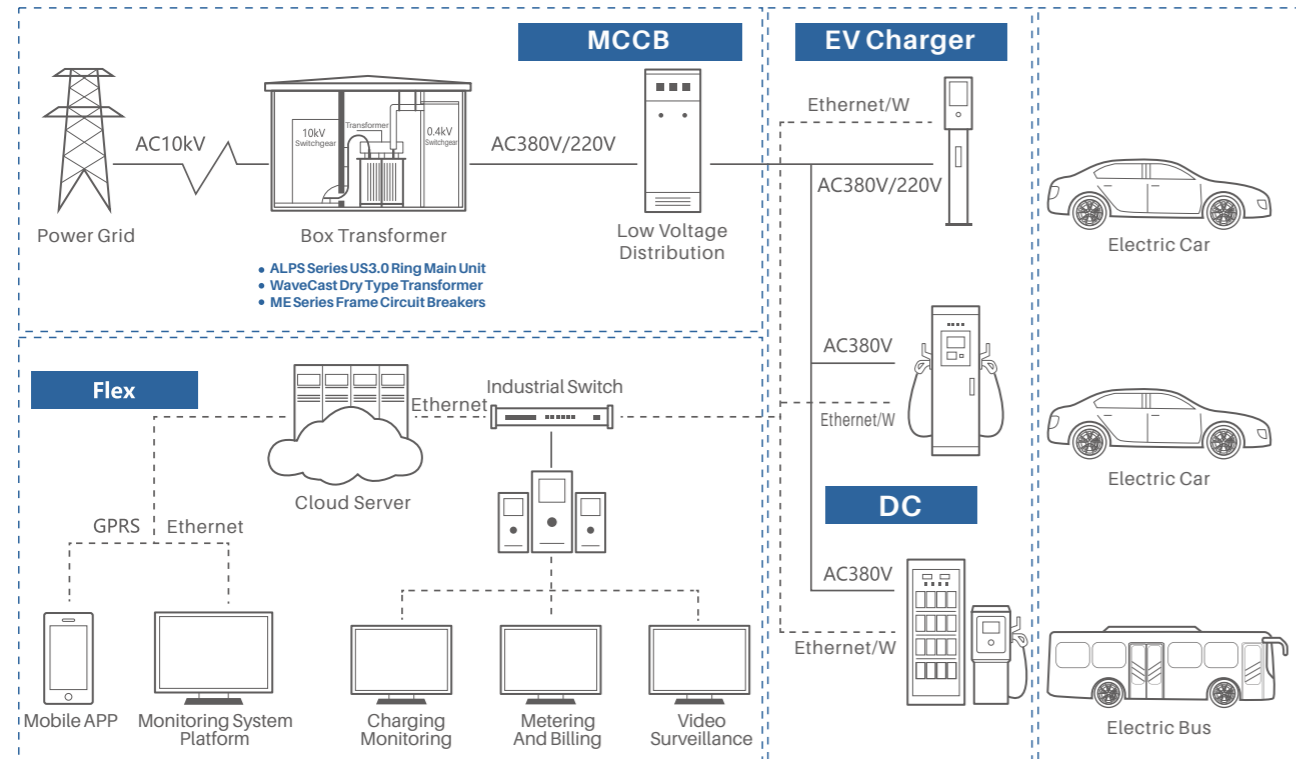


Bus, taxi, power supply station, highway rest stop
Equipment: high-power AC, DC charging
Features: low density, speed, safety

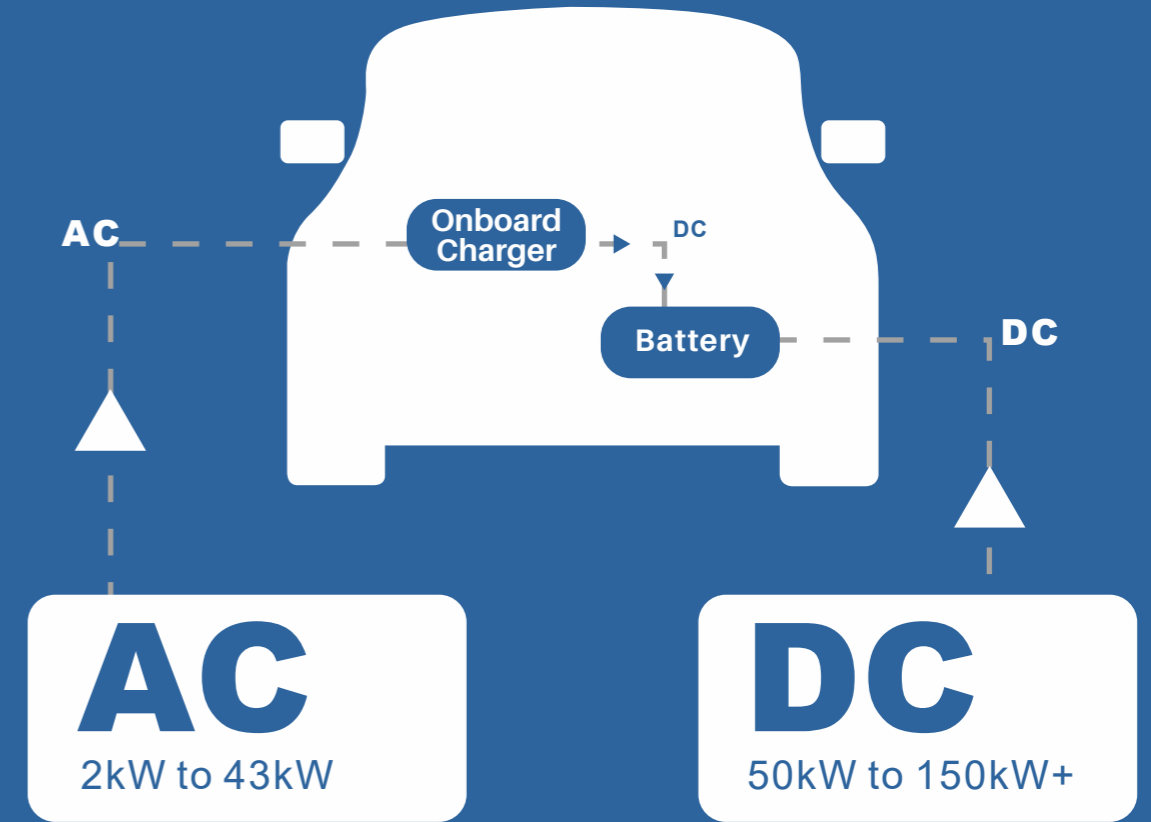


Portable car charger
Equipment: Low Power AC Charging
Features: insurance policy anytime, anywhere

Overall Solution For Charging System



Output Specifications



N AMERICA



J1772
(Type1)

EU



IEC62196-2
(Type2)

N AMERICA



CCS1

EU



CCS2

CHINA



GB/T

ALL MARKET



TESLA

JAPAN



CHAdeMO

CHINA



GB/T (DC)



Portable EV Charger

- Type2 Portable EV Charger
- GB/T Portable EV Charger



Charging head optional

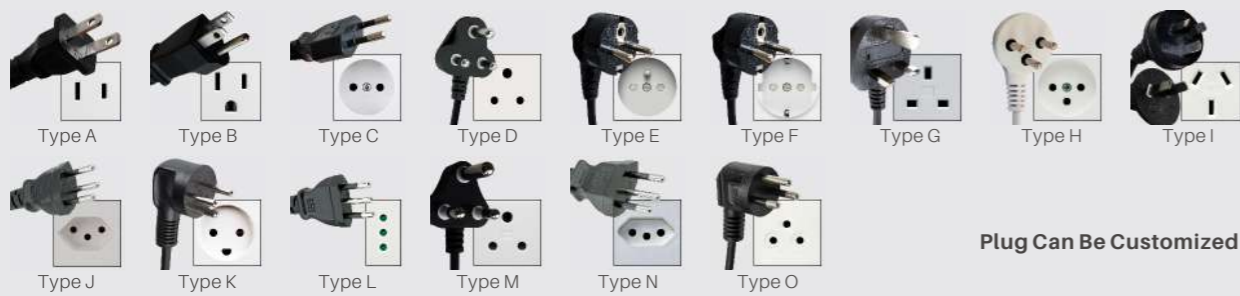


Type 2



GB/T

Data				
Model	MDAC116ENF	MDAC116ENF-P	MDAC132ENF	MDAC132ENF-P
Working voltage	AC230V		AC230V	
Frequency	50HZ		50HZ	
Rated power	3.5kW		7kW	
Power supply circuit	1-phase		1-phase	
Rated Maximum Power	16A		32A	
IP Degree	IP65		IP65	
Working Environment				
Environment temperature	-25°C ~ +50°C			
Relative humidity	0-95% non-condensing			
Maximum altitude	<2000m			
Cooling	Natural air cooling			
Function				
Bluetooth	No			
APP	No			
2.8inch LED	NO	YES	NO	YES
RCD	TypeA			
LED Indicator light	Yes			
Intelligent power adjustment	Yes			
Fuselage size	200*90*55mm		230*110*60mm	



Plug Can Be Customized



Capricornus Wallbox EV Charger

- Type2 EV Charger
- GB/T EV Charger



Charging head optional



Type 2



GB/T

Data			
Model	MDAC132EN	MDAC316EN	MDAC332EN
Working voltage	AC230V	AC400V(L1+L2+L3+N+PE)	AC400V(L1+L2+L3+N+PE)
Frequency	50HZ	50HZ	50HZ
Rated power	7kW	11kW	22kW
Power supply circuit	1-phase	3-phase	3-phase
Rated Maximum Power	32A	16A	32A
IP Degree	IP65	IP65	IP65
Use environment			
Working temperature	-30°C — + 50°C		
Working humidity	5%~ 95%HR		
The cooling way	Natural air cooling		
Display function			
Display parameters	Charge voltage, charge current, charge quantity, fault code.		
Physical size			
Fuselage size	355*250*93mm		
Installation mode	Column mounted (floor mounted) or wall mounted Install optional		
Product performance			
Over voltage protection, Undervoltage protection, Overload protection, Leakage Protection, Ground protection, Over temperature protection, Lightning protection, Short circuit protection			



Emergency stop



Indicator light/ Swipecard



Aquarius Wallbox EV Charger

Sheet Metal/Operations/Home Edition



Product Name	Product Specifications	Operation version, normal version(MDAC3-7kWp)	Simple Version (Home Version MDAC3-7kWS)
Charging Equipment	Installation method	Column type, wall-mounted type	
	route	down in down out	
	Input voltage	AC220V±10%, single-phase three-wire system (L+N+PE)	
	input frequency	50±1Hz	
	The output voltage	Single-phase AC220V	
	Rated current	32A	
	output method	Wiring method C	
	Specification size mm (L×W×H)	390×260×125mm	
	cable length	5m	
Feature Design	HMI	4.3-inch display/indicator	none
	Measurement method	Have	
	charging method	Swipe card to charge/scan code to charge	Plug and charge/swipe card charging
	charging settings	none	
	payment method	Credit card payment/scan code payment	none
	way of communication	Ethernet/4G network, ordinary version can not be connected to the Internet	485 (reserved)
Safety Design	Protective function	Overvoltage protection, undervoltage alarm, overcurrent protection, short circuit protection, Over temperature protection, lightning protection, emergency stop protection, leakage protection, Relay adhesion detection, CP detection	
	security function	Withstand voltage: AC 2kV, insulation resistance: > 10MΩ	
	safety standard	GB/T20234-2015、GB/T18487-2015、GB/T27930-2015、NB/T33008-2018、NB/T33002-2018	
Environmental Design	Operating temperature	-20°C~+50°C	
	Relative humidity	5%-95% non-condensing cream	
	Storage temperature	-40°C~+70°C	
	working altitude	≤2000m	
	Protection class	IP54	
	noise control	≤60dB	



Sagittarius Wallbox EV Charger

Operation Edition/Normal Edition



Product Name	Product Specifications	High version (MDAC4-7kWp)
Charging Equipment	Installation method	Wall-mounted
	route	down in down out
	Input voltage	AC220V±10%, single-phase three-wire system (L+N+PE)
	input frequency	50±1Hz
	The output voltage	Single-phase AC220V
	Rated current	32A
	output method	Wiring method C
	Specification size mm (L×W×H)	390×260×125mm
	cable length	5m
Feature Design	HMI	4.3 inch display/touch screen + indicator light
	Measurement method	Have
	charging method	Swipe card to charge/scan code to charge
	charging settings	none
	payment method	Credit card payment/scan code payment
	way of communication	Ethernet/4G network, ordinary version can not be connected to the Internet
Safety Design	Protective function	Overvoltage protection, undervoltage alarm, overcurrent protection, short circuit protection, Over temperature protection, lightning protection, emergency stop protection, leakage protection, Relay adhesion detection, CP detection
	security function	Withstand voltage: AC 2kV, insulation resistance: > 10MΩ
	safety standard	GB/T20234-2015、GB/T18487-2015、GB/T27930-2015、NB/T33008-2018、NB/T33002-2018
Environmental Design	Operating temperature	-20°C~+50°C
	Relative humidity	5%-95% non-condensing cream
	Storage temperature	-40°C~+70°C
	working altitude	≤2000m
	Protection class	IP65
	noise control	≤60dB



Wallbox Dual EV Charger

14kw-double Charging-wall Mounted



Wallbox DC Charging Pile Series

Wall-mounted



Product Name	Product Specifications	14kw-Dual Gun-Wall Mounted(MDAC5)	14kw-dual gun-floor-standing(MDAC5)
Charging Equipment	Equipment size	425×300×117(mm) [Plug and charge, swipe card start, 4G operation]	1400×300×150(mm) [Plug and charge, swipe card start, 4G operation]
	Installation method	Floor mounted/Wall mounted	
	route	down line, down line	
	Equipment weight (net weight)	29kg	
	cable length	5M	
	Input voltage	AC220V+20%	
	input frequency	50Hz	
	rated power	14kw	
	Measurement accuracy	Level 1	
	The output voltage	AC220V+20%	
	Output current	32A+32A	
	Standby power consumption	<5W	
	Feature Design	HMI	4.3 inch color touch screen/LED indicator
Safety Design	Safety standards	GB/T20234, GB/T18487, NB/T33008, NB/T33002	
	Protective function	Overvoltage protection, undervoltage protection, short circuit protection, overload protection, Grounding protection, over temperature protection, low temperature protection, lightning protection, Leakage Protection	
Environmental Design	Applicable environment	Home/Commercial/Indoor/Outdoor	
	Operating temperature	-20°C - +55°C	
	Working humidity	5% ~ 95% non-condensing	
	working altitude	< 2000m	
	Protection class	IP54	
	cooling method	Free cooling	
	MTTBF	30,000 hours	
special protection	UV resistant design		

Product Specifications	Contents of Technical Instructions (MDDC1)	
rated power	20kW	30kW
output maximum current	50A	80A
Constant power output voltage range	DC400-750V	DC300-1000V
Dimensions(W×H×D) Without uprights	600×450×210mm	650×550×250mm
Start method	Plug and Charge	
charging mode	Automatic charging, by time, by power, by amount, etc.	
Display method	7-inch touch display	
Network background	Support State Grid, Cloud Quick Charge, Xiaoju, Weijingyun and other cloud platforms	
Host computer communication	Ethernet (standard)/4G (speed-dating)	
Protective function	Short circuit, over temperature, over current, leakage, input over and under voltage, etc.	
charging method	full power charge	
Input voltage	AC380V±20%	
input frequency	50Hz±10%Hz	
number of guns	single gun	
gun line length	Standard 5 meters (optional)	
Output voltage range	DC150-750V adjustable	
Output voltage error	≤±0.5%	
Output current error	≤±1%	
Voltage regulation accuracy	≤±0.5%	
Steady flow accuracy	≤±1%	
Harmonic content	≤±5%	
power factor	≥0.99	
efficiency	≥95%	
Electric energy metering	Grade 1.0 meets GB standard	
Insulation resistance	≥20MΩ	
noise	≤60dB	
Protection class	Ip54	
Use environment	outdoor or indoor	
cooling method	air cooling	
Operating temperature	-20°C~+50°C	
Storage temperature	-40°C~+70°C	
Relative humidity	5%~95%	
Altitude	≤2000m	
Installation method	Wall Mount/Vertical Mount	



Aries DC Charging Pile Series

floor-standing



Product Specifications	Contents of Technical Instructions (MDDC)	
rated power	30kW	40kW
number of guns	single and double guns	single and double guns
Single gun output maximum current	63A/80A	80A/125A
Stake line length	Standard 5 meters (optional)	
Constant power output voltage range	DC400~750V (optional)	
Dimensions	1720×550×200mm (W×H×D)	
Display method	7-inch touch display	
Host computer communication	Ethernet/4G (Speed Dating)	
charging mode	Automatic charging, by time, by power, by amount, etc.	
Start method	Swipe IC card, scan QR code (APP, WeChat, etc.)	
Protective function	Short circuit, over temperature, over current, leakage, over and under voltage, etc.	
charging method	Full power charging, AB equalizing charging, wheel charging	
Network background	Support cloud platforms such as State Grid, Cloud Quick Charge, Xiaoju, Weijingyun, etc.	
Input voltage	AC380V±20%	
input frequency	50Hz±10%Hz	
Output voltage range	DC150-750V adjustable	
Output voltage error	≤±0.5%	
Output current error	≤±1%	
Voltage regulation accuracy	≤±0.5%	
Steady flow accuracy	≤±1%	
Harmonic content	≤±5%	
power factor	≥0.99	
efficiency	≥95%	
Electric energy metering	Grade 1.0 meets GB standard	
Insulation resistance	≥100M	
noise	≤60dB	
Protection class	Ip54	
Use environment	outdoor or indoor	
cooling method	air cooling	
operating temperature	-20°C~+50°C	
Storage temperature	-40°C~+70°C	
Relative humidity	5%~95%	
Altitude	≤2000m	
Installation method	Floor installation	



Gemini DC Charging Pile Series

floor-standing



Product Specifications	Contents of Technical Instructions (MDDC)	
rated power	60kW	80kW
number of guns	single and double guns	single and double guns
Single gun output maximum current	125A/200A	200A
Stake line length	Standard 5 meters (optional)	
Constant power output voltage range	DC300~1000V (Optional)	DC400~750V (Optional)
Dimensions	1700×750×400mm (W×H×D)	
Display method	7-inch touch display	
Host computer communication	Ethernet/4G (Speed Dating)	
charging mode	Automatic charging, by time, by power, by amount, etc.	
Start method	Swipe IC card, scan QR code (APP, WeChat, etc.)	
Protective function	Short circuit, over temperature, over current, leakage, over and under voltage, etc.	
charging method	Full power charging, AB equalizing charging, wheel charging	
Network background	Support cloud platforms such as State Grid, Cloud Quick Charge, Xiaoju, Weijingyun, etc.	
Input voltage	AC380V±20%	
input frequency	50Hz±10%Hz	
Output voltage range	DC150-750V adjustable	
Output voltage error	≤±0.5%	
Output current error	≤±1%	
Voltage regulation accuracy	≤±0.5%	
Steady flow accuracy	≤±1%	
Harmonic content	≤±5%	
power factor	≥0.99	
efficiency	≥95%	
Electric energy metering	Grade 1.0 meets GB standard	
Insulation resistance	≥100M	
noise	≤60dB	
Protection class	Ip54	
Use environment	outdoor or indoor	
cooling method	air cooling	
Operating temperature	-20°C~+50°C	
Storage temperature	-40°C~+70°C	
Relative humidity	5%~95%	
Altitude	≤2000m	
Installation method	Floor installation	



Virgo DC Charging Pile Series

floor-standing



Product Specifications	Contents of Technical Instructions (MDDC)	
rated power	120KW	160KW
Single gun output maximum current	250A	
Double gun output maximum current	150A*2	200A*2
Dimensions	1700×750×550mm(W×H×D)	
payment method	Swipe card, WeChat scan code, password	
charging method	Automatic charging, by time, by power, by amount, etc.	
Display method	7-inch touch display	
Networking	Ethernet/4G (Speed Dating)	
Network background	Support State Grid, Cloud Quick Charge, Xiaoju, Weijingyun and other cloud platforms	
Protective function	Short circuit, over temperature, over current, leakage, input over and under voltage, etc.	
Input voltage	AC380V±20%	
input frequency	50Hz±10%Hz	
number of guns	double gun	
gun line length	Standard 5 meters (optional)	
Output voltage range	DC150-750V adjustable	
Output voltage error	≤±0.5%	
Output current error	≤±1%	
Voltage regulation accuracy	≤±0.5%	
Steady flow accuracy	≤±1%	
Harmonic content	≤±5%	
power factor	≥0.99	
efficiency	≥95%	
Electric energy metering	Grade 1.0 meets GB standard	
Insulation resistance	≥100MΩ	
noise	≤65dB	
Protection class	Ip54	
Use environment	outdoor or indoor	
cooling method	air cooling	
Operating temperature	-20°C~+50°C	
storage temperature	-40°C~+70°C	
Relative humidity	5%~95%	
Altitude	≤2000m	
Installation method	Floor installation	

Charger Spares



Type 2 to GB T



Type 2 Charging



Adaptor for GB/European Standard



GB Charging



Plug Can Be Customized