

MC-DS series

MIDCOUR
YOUR EV CHARGING SOLUTION

120kW Standalone DC Fast Charger



- Optional non-Liquid-cooled 500A charging connector*
- Simultaneous DC charging
- Multi-standard: CCS and CHAdeMO
- Network or standalone operation
- User authentication
- Optional cable management accessories
- Supports smart charging and load balancing
- Efficiency > 94%; PF > 0.99(APFC)
- 7-inch LCD screen with user friendly interface
- OCPP 1.6 JSON
- IK10/NEMA 3R(Not including screen and RFID module)
- Customization available

Optional Cable Management



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

Applications

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

Model Name	UL, DS 120 Series
Safety	NRTL – cETLus (USA/Canada)
Product Photo	

Power Specification

AC Input	Input Rating	3 Φ _480Vac (+10%, -15%)
	AC Input Connection	3P+N+PE (Wye configuration), TN/TT
	Max. Input Current	DC System:3 Φ 170A
	Frequency	50Hz/60Hz
	Power Factor	>0.99
	Efficiency	>94%,at optimize V/I point
DC Output	Output Voltage Range	<ul style="list-style-type: none"> • CCS1:150~950Vdc • CHAdeMO:150~500Vdc
	Max. Output Current	<ul style="list-style-type: none"> • CHAdeMO:120A@500V • CCS1:200A@600V, optional 300A
	Max. Output Power	DC System:120kW
	Voltage Accuracy	\pm 2%
	Current Accuracy	\pm 2%

User Interface & Control

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

Communication

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

Environmental

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

Mechanical



Cabinet Dimension(W x D x H)	800 x 650 x 1900mm \pm 1%
Weight	\leq 420kg \pm 1%
Cable Length	4m

Protection

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

Regulation

Certificate	UL 2202, UL2231
Charging Interface	CHAdeMO V1.2, DIN 70121, ISO15118, GB/T 27930

Model Name	UL, DS 150 Series	UL, DS 180 Series	
Safety	NRTL – cETLus (USA/Canada)		
Product Photo			
Power Specification			
AC Input	Input Rating	3Φ_480Vac (+10%, -15%)	
	AC Input Connection	3P+N+PE (Wye configuration), TN/TT	
	Max. Input Current	DC System:3Φ215A	DC System:3Φ260A
	Frequency	50Hz/60Hz	
	Power Factor	>0.99	
	Efficiency	>94%,at optimize V/I point	
DC Output	Output Voltage Range	<ul style="list-style-type: none"> • CCS1:150~950Vdc • CHAdeMO:150~500Vdc 	
	Max. Output Current	<ul style="list-style-type: none"> • CHAdeMO:120A@500V • CCS1:200A@750V, optional 300A 	<ul style="list-style-type: none"> • CHAdeMO:120A@500V • CCS1:200A@900V, optional 300A
	Max. Output Power	DC System:150kW	DC System:180kW
	Voltage Accuracy	±2%	
	Current Accuracy	±2%	
User Interface & Control			
Display	7" TFT-LCD		
Push Buttons	Operation button/Emergency stop button		
User Authentication	RFID: support ISO 14443A/B, ISO 15693, FeliCa Lite-S (RCS966) OCPP, 2D barcode, APP, Mobile payment		
Communication			
External	Ethernet,Wi-Fi,and 4G		
Internal	CAN bus/RS485		
Environmental			
Operating Temperature	-30°C~50°C, will derating from 50°C and above		
Humidity	5%~95% RH, non-condensing		
Altitude	≤ 2000m		
IP/IK Level	<ul style="list-style-type: none"> • NEMA 3R • IK10 (not including screen and RFID module) 		
Cooling Method	Fan cooling		
Mechanical			
Cabinet Dimension(W x D x H)	800 x 650 x 1900mm ±1%		
Weight	≤ 460kg ±1%	≤ 500kg ±1%	
Cable Length	4m		
Protection			
Input Protection	OVP, OCP, OPP, OTP, UVP, SPD		
Output Protection	OCP, SCP, OVP, LVP, OTP, IMD		
Regulation			
Certificate	UL 2202, UL2231		
Charging Interface	CHAdeMO V1.2, DIN 70121, ISO15118, GB/T 27930		