

DS series

# 120kW Free Standing DC Fast Charger



## Features

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

## Applications

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

## Accessory

Please refer to page 37 for accessory information.




- Cable Management

Cable Management



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

DS Series			
Model Name		CE, DS 120 Series	UL, DS 120 Series
Picture			
Power Specification			
AC Input	Input Rating	3Φ_380~415Vac (±15%)	3Φ_480Vac (+10%, -15%)
	AC Input Connection	3P+N+PE (Wye configuration), TN/TT/IT	3P+N+PE (Wye configuration), TN/TT
	Max. Input Current	DC System:3Φ220A(Typ.±1%) AC module(43kW):3Φ63A(±1%) or AC module(22kW):3Φ32A(±1%)	DC System:3Φ180A(Typ.±1%) AC module(19.2kW):1Φ80A(±1%)
	Frequency	50Hz/60Hz	
	Power Factor	>0.99 @ full load	
	Efficiency	≥94%	
DC Output	Output Voltage Range	CCS2:150~950Vdc GBT: 150~750Vdc CHAdEMO:150~500Vdc AC:3Φ_380~415Vac (±15%)	CCS1:150~950Vdc CHAdEMO:150~500Vdc AC:1Φ_240Vac (+10%, -15%)
	Max. Output Current	CCS2:126A@950Vdc GBT:160A@750Vdc CHAdEMO:120A@500Vdc AC(43kW):3Φ63A@230Vac or AC(22kW):3Φ32A@230Vac	CCS1:126A@950Vdc CHAdEMO:120A@500Vdc AC(19.2kW):1Φ80A@240Vac
	Max. Output Power	DC System:120kW + AC module:3 Phase 43kW or 22kW	DC System:120kW + AC module:Single Phase 19.2kW
	Voltage Accuracy	±2%	
	Current Accuracy	±2%	
	User Interface & Control		
Display		7" TFT-LCD	
Push Buttons		Operation button/Emergency stop button	
User Authentication		RFID: support ISO 14443A/B, ISO 15693, FeliCa Lite-S (RCS966) OCPP, 2D barcode, APP, Mobile payment	
Communication			
External		Ethernet/4G/Wi-Fi	
Internal		CAN bus/RS485	
Environmental			
Operating Temperature		-30°C~50°C, power derating from 50°C and above	
Humidity		5%~95% RH, non-condensing	
Altitude		≤ 2000m	
IP Level		IP55/IK10 (not including screen and RFID module)	
Cooling Method		Fan cooling	
Mechanical			
Cabinet Dimension(W x D x H)		800 x 650 x 1900mm ±1%	
Weight		≤ 420kg ±1%	
Cable Length		4m	4m
Protection			
Input Protection		OVP, OCP, OPP, OTP, UVP, RCD, SPD	
Output Protection		OCP, OVP, UVP, OTP, IMD	
Regulation			
Certificate		IEC 61851-1, IEC 61851-23, IEC 61851-21-2	UL 2202, UL 2231-1/-2
Safety		CB, CE	NRTL - cETLus
Charging Interface		CHAdEMO V1.2, DIN 70121, GB/T 20234.3, (ISO15118:2020/Q4)	