

DS series

90kW 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 90 Series		UL, DS 90 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:3Φ170A(Typ.±1%) AC module(43kW):3Φ63A(±1%) or AC module(22kW):3Φ32A(±1%)	DC System:3Φ135A(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	CCS2:95A@950Vdc, GBT:120A@750Vdc CHAdeMO:120A@500Vdc AC(43kW):3Φ63A@230Vac or AC(22kW):3Φ32A@230Vac	CCS1:95A@950Vdc CHAdeMO:120A@500Vdc AC(19.2kW):1Φ80A@240Vac
	Max. Output Power	DC System:90kW + AC module:3 Phase 43kW or 22kW	DC System:90kW + 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/IK 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	≤ 390kg ±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)		