

DS series

90kW Free Standing DC Fast Charger

Cable Management



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



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 | 3 Φ _380~415Vac (\pm 15%) | 3 Φ _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:3 Φ 170A(Typ. \pm 1%) AC module(43kW):3 Φ 63A(\pm 1%) or AC module(22kW):3 Φ 32A(\pm 1%) | DC System:3 Φ 135A(Typ. \pm 1%) AC module(19.2kW):1 Φ 80A(\pm 1%) |
| | Frequency | 50Hz/60Hz | |
| | Power Factor | >0.99 @ full load | |
| | Efficiency | \geq 94% | |
| DC Output | Output Voltage Range | CCS2:150~950Vdc GBT: 150~750Vdc CHAdEMO:150~500Vdc AC:3 Φ _380~415Vac (\pm 15%) | CCS1:150~950Vdc CHAdEMO:150~500Vdc AC:1 Φ _240Vac (+10%, -15%) |
| | Max. Output Current | CCS2:95A@950Vdc, GBT:120A@750Vdc CHAdEMO:120A@500Vdc AC(43kW):3 Φ 63A@230Vac or AC(22kW):3 Φ 32A@230Vac | CCS1:95A@950Vdc CHAdEMO:120A@500Vdc AC(19.2kW):1 Φ 80A@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 | \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/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 | | \leq 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 \pm 1% | |
| Weight | | \leq 390kg \pm 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) | |