

180 kW Sequential Station DC Charger

Plug-in CCS 2

DC plug-in fast charging stations have high contribution in charging infrastructure of the electric vehicles. Try to design chargers with higher power ratings, lower infrastructure costs, and efficient charging scenarios are necessary targets to achieve suitable architecture of the charging stations in various applications.

180kW plug-in sequential station DC charger constructed by HKD can charge up to 5 electric buses one-by-one with a common power conversion cabinet and 5 separated charging dispensers. Each of the electric buses can be charged in about one-two hours (depends on the battery pack capacity) and all of them are fully charged after night finishing without requirement to human intervention. Sequential charging process is applicable in depot charging stations of the electric buses fleet during overnight.

Special features

- ◆ Remote management, support, and update
- ◆ Galvanic isolation for load protection
- ◆ Redundancy-based architecture and modular structure
- ◆ Industrial grade power cabinets with indoor/outdoor application capability
- ◆ Possibility to offer in various power ratings according to customer order



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Separating of the power conversion cabinets and the charging dispensers in this class of the HKD chargers cause to reduction of noise and occupied place near the electric bus. user authentication at the start of charging process and also supporting by a back office protocol (based on OCPP 1.6) are another features of the HKD sequential station DC charger. This product is supported by CCS 2 charging protocol and also can be designed compatible with the other types of DC fast protocols, such as CHAdeMO and GB/T. The HKD sequential station DC charger can be offered in a variable power rating that includes: 150 kW, 180 kW, 240 kW, 300kW, 360 kW, and 480 kW.

Technical specification

Input

Input voltage range	260VAC~530VAC
Input frequency range	45Hz~65Hz
Input AC connection	3P + PE
Rated input current & power	275A @ 180kW
Power factor (nominal load)	≥0.99
THD	≤5%

Output

Rated output power	180kW
Output voltage range	150VDC~1000VDC
Maximum output current	250A (per connector)
Efficiency	>95% (nominal load)
Charging protocol	CCS 1/CCS 2
DC connection standard	IEC 61851-23/ISO 15118/DIN 70121
Upstream communication protocol	OCPP 1.6 JSON
Display	LCD 7" touch screen (optional)
Network connection	LAN, WiFi, GSM/3G/4G

Mechanical and environmental

Dimensions (H*D*W)	Power cabinet: 2000mm*800mm*1000mm Dispenser: 1300mm*1000mm*300mm
Protection	Power cabinet: IP54 & IK10 Dispenser: IP65 & IK10
Allowable humidity range	≤95% RH, without condensation
Operating temperature	-30°C~70°C, derating from 55°C
Storage temperature	-40°C~85°C
Pressure/Altitude	79kPa~106kPa/2000m
Distance between power cabinet and dispenser	Up to 30m
Cable length	Up to 10m (optional)



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