



360kW Combinational Station DC Charger

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.

360kW plug-in combinational station DC charger constructed by HKD can charge up to 4 electric vehicles one-by-one or in parallel with a load sharing process. Charging process (sequential or parallel with load sharing capability) can be selected at first by user. The combinational charger is applicable in public charging stations or depot charging stations of the electric buses fleet.

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
- ◆ Capability to have various user authentication methods
- ◆ Possibility to offer in various power ratings according to customer order

Use cases



Public charging stations



Electric bus charging station



Hotels, malls and sport complexes

Contact us for more information

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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 vehicle. 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 combinational station DC charger.

This product is supported by CCS 2 charging protocol and also can be designed compatible with other types of the DC fast protocols, such as CHAdeMO and GB/T.

The MAPNA combinational station DC charger can be offered in a variable power rating that includes: 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	550A @ 360kW
Power factor (nominal load)	≥0.99
THD	≤5%

Output

Rated output power	360kW
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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