

DC180kW~400kW EV Charger

The integrated DC charger main control is self-developed and can support a mixed composition of different interfaces such as CCS1, CCS2, CHAdeMO, GBT, It adopts an IP65 ultra-high protection level power module and can operate stably for a long time in harsh environments with high levels of dust, metal dust, and humidity; The modular design of the charger makes maintenance and testing more convenient, with more reliable quality and smaller size. SIC silicon carbide charging module has an efficiency of 97%, significantly reducing the cost of operating more stations, Widely applicable to high-power charging scenarios such as buses, mining trucks, logistics vehicles, mixer trucks, sanitation vehicles, etc.



Minimalistic

- Compact, slimline enclosure
- High energy-saving ECO mode
- Compatible with 180kW~400kW

Intelligent

- Ethernet/4G
- OCPP 1.6 Json
- Dynamic load balancing
- Meet the OTA remote upgrade function

Select

- App operation/RFID/POS
- 12.1 inch screen for option
- Optional CCS1/CCS2/CHAdeMO/GBT standards

Safety Protection

- 9 safety protection measures
- IP55 ingress protection(body)
- Modular design, easy to repair and replace
- IK10 impact protection

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Specifications



MODEL		EMDC180F	EMDC240F	EMDC320F	EMDC360F	EMDC400F
Input Characteristic						
AC Input Power		274A, 400V	365A, 400V	486A, 400V	547A, 400V	608A, 400V
Input type		3P + N + PE				
Input Voltage Range		AC380V~400V				
Input Frequency		50Hz /60Hz				
THD		≤ 5%				
Ouput Characteristic						
DC Output Power Rating (MAX)		180kW	240kW	320kW	360kW	400kW
DC Output Voltage		200-1000VDC				
Cable Length		5M or Customized				
Maximum Current	CCS Cables	250A	250A	300A	300A/500A	300A/500A
	CHAdEMO Cables	125A	125A	125A	125A	125A
	GBT cables	250A	300A	300A	400A/500A	400A/500A
Outlet Options		C: CCS2 cable , A: CCS1 cable , J: CHAdEMO cable , G: GBT cable				
Others						
Dist:ribution Systems		TN-S, TN-C, TN-C-S, TT (required external RCD)				
Connector Type		3P + N + PE				
Protection		Overcurrent, overvoltage, undervoltage, integrated surge protection, ground fault including DC leakage protection, door opening protection				
Power Factor (Full Load)		≥0.98				
Standby Power		≤5%				
Efficiency		95.5% (peak)				
Standby Power		<36W				
Short Circuit Current		10kA				
Pre-charge Current		<1A				
Inrush Current		<55A				
Leakage Current		0.8mA				
Energy Metering		Standard: Meter for DC outlet, Optional: AC inlet				
Cellular Communication		GSM, 4G, LTE				
USER INTERFACE						
Connectivity		Internet access via 4G/3G/Ethernet (RJ45)				
User Authentication		RFID, QR code, POS				
User Interface		12.1 inch LCD high-contrast touchscreen				
Communiation Protocols		Proprietary and OCPP 1.6J				
RFID Reader		ISO/IEC 14443 A/B Mifare RFID reader				
Emergency Button		Yes				
Language System		English or Customized				
GENERAL CHARACTERISTIC						
Protection Rating		IP55 and IK10 (cabinet) / IK08 (touchscreen)				
Operating Altitude		≤ 2000m				
Operating Temperature		- 20 °C to 55 °C				
Storage Temperature		-40 °C to 70 °C				
Humidity		< 95%, non-condensing				
Mounting		Free-standing cabinet				
Dimensions (mm)		600*780*1800mm				
Net Weight (kgs)		≤455kg	≤455kg	≤475kg	≤565kg	≤575kg
COMPLIANCE STANDARDS						
Codes & Standards		IEC 61851-21~2, IEC 61000, IEC/EN 61851-1, IEC 61851-23, IEC 61851-24, IEC 62196-1, IEC 62196-3, GBT18487, GBT20234, NB/T 33008.1, NB/T 33001				
Communication to the EV		DIN 70121, ISO/IEC 15118, GBT27930, GBT 34657, GBT 34658				