

DC60kW~150kW 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 60kW~150kW

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



Specifications



MODEL	EMDC60F	EMDC80F	EMDC120F	EMDC150F
Input Characteristic				
AC Input Power	115A, 400V	155A, 400V	182A,400V	228A,400V
Input type	3P + N + PE			
Input Voltage Range	AC380V±15%			
Input Frequency	50Hz /60Hz			
THD	≤5%			
Ouput Characteristic				
DC Output Power Rating (MAX)	60kW	80kW	120kW	150kW
DC Output Voltage	200-1000VDC			
Cable Length	SM or Customized			
Maximum Current	CCS Cables	200A	250A	
	CHAdeMO Cables	125A	125A	
	GBT cables	200A	250A	
Outlet Options	C: CCS2 cable , A: CCS1 cable , J: CHAdeMO cable , G: GBT cable			
Others				
Distribution 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			
User Interface	7 inch LCD high-contrast touchscreen			
Communication Protocols	Proprietary and OCPP 1.6J/2.0			
RFID Reader	ISO/IEC 14443 A/B Mifare RFID reader			
Emergency Button	Yes			
Language System	English, Chinese 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*700*1800mm			
Net Weight (kg)	≤325kg		≤425kg	
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, GB/T18487, GB/T20234, NB/T 33008.1, NB/T 33001			
Communication to the EV	DIN 70121, ISO/IEC 15118, GB/T27930, GBT 34657, GBT 34658			

Metrobit FZCO

Warehouse No. FZS5AA05, South Zone 5, Jebel Ali Free Zone, Dubai, UAE

TEL:+971 4 8809093 FAX:+971 4 8807076

✉ info@metrobitcorp.com

🌐 www.metrobitcorp.com

