

# MF-DC-EV 30kW-240kW

MasterPower®

## DC EV charger

- In-house developed controllers, CCS and OCPP charging modules
- Supports multiple charging standards: GB, CCS1, CCS2 and CHAdeMO
- Wider DC voltage range 300v to 1000v at 30KW constant output power per module, faster charging efficiency
- Optional booster mode, shorten the charging time and improve the efficiency by 28%
- The charger has passed 33 sets of rigorous environmental and thermal shock tests from -35°C to 55°C to ensure the system reliability
- The DC power module is equipped with UL approved epoxy resin automatic injection to sustain the dusty and salty air tests to improve environmental adaptability
- IP54 protection, IK10 vandal-proof enclosure and IK8 touch screen
- Each charging mode with dedicated LED status indicator light (easy and intuitive charging experience)
- Multilingual support for 7" colored touch LCD
- Built-in RFID card reader
- Supports OCPP 1.6 JSON network and 3G/4G
- Remote firmware upgrade with APP (OTA)
- Adapting OCPP network security protocol to implement the OTA feature
- Passed cloud network protocol test and was verified by OCTT
- Passed vehicle end protocol DIN 70121, ISO 15118, and was verified TUV
- The Linux 5.10 OS and CPU performed with cybersecurity standards
- Third-party certified CE EN61851

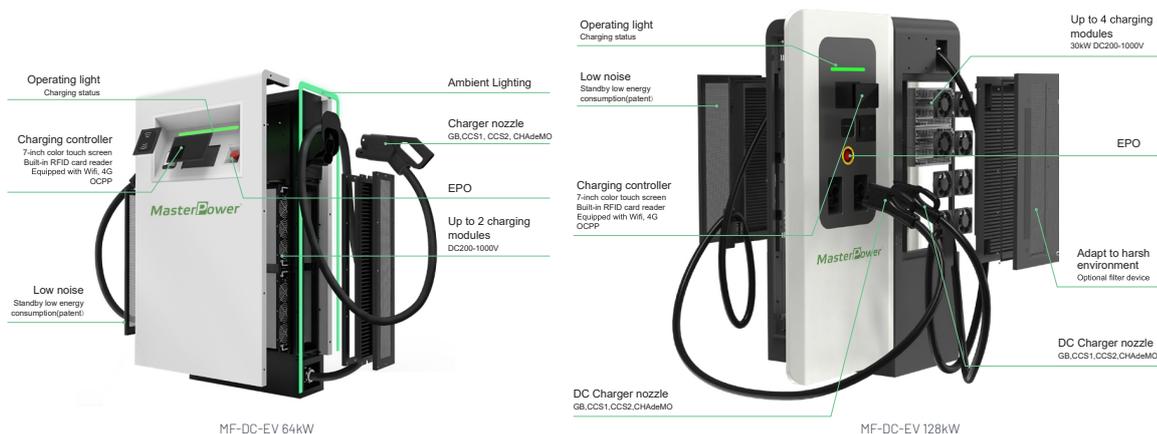


MF-DC-EV 30kW / MF-DC-EV 60kW



MF-DC-EV 120kW / MF-DC-EV 180kW / MF-DC-EV 240kW

### Product Outlook



### Product Selection Guide

Model	Power module #	DC charger nozzle #	Dimension (D x W x H, mm)
MF-DC-EV 30kW	1	up to 2	235.5 x 660 x 1250
MF-DC-EV 60kW	2	up to 2	
MF-DC-EV 120kW	4	up to 2	640 x 750 x 1650
MF-DC-EV 180kW	6	up to 2	
MF-DC-EV 260kW	8	up to 2	

# MF-DC-EV 30kW-240kW

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### Specification

MODEL		MF-DC-EV 30kW	MF-DC-EV 60kW	MF-DC-EV 120kW	MF-DC-EV 180kW	MF-DC-EV 240kW
Charging Type		DC fast charging	DC fast charging	DC fast charging	DC fast charging	DC fast charging
Outlet Options		T2: AC Type 2, C: CCS2 cable, A: CCS1 cable, J: CHAdeMO cable, G: GBT cable				
AC Input Power @ 400V 50Hz		48 A, 33 kVA	93 A, 64 kVA	192 A, 128 kVA	288A,192kVA	384A,256kVA
Input Voltage Range		380/400/415 VAC				
Input Frequency		50 Hz or 60 Hz				
DC Outlet	DC Output Power Rating	30 kW	60 kW	120 kW	180 kW	240 kW
	DC Output Voltage	200-1000 Vdc ( Constant power from 300-1000Vdc)				
	Number of EV Served	Up to 2 (JC, JA models) Up to 1 (C, A, J, G models)	Up to 2 (CC, AA, JC, JJ, GG models) Up to 1 (C, A, G models)	Up to 2 (C, A, G, CC, AA, JC, JA, GG models)	Up to 2 (C, A, G, CC, AA, JC, JA, GG models)	
	Cable Length	5.0 m, Optional: 6.0 m / 7.0 m				
	Maximum Current*	CCS Cables CHAdeMO Cables GBT Cables	100A 100A 100A	200A 125A 200A	200A 125A 250A	200A 125A 250A
Cable Length		5.0 m, Optional: 6.0 m / 7.0 m				
Electro-Magnetic Compatibility		Class A				
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				
Overvoltage Category		Type II				
Power Factor (Full Load)		≥ 0.98	≥ 0.99	≥ 0.99		
THDi		≤ 5%			≥ 94% (peak)	
Efficiency		≥ 93% (peak)			≥ 94% (peak)	
Standby Power		< 35 W				
Short Circuit Current		10 kA				
Pre-charge Current		< 1 A				
Inrush Current		< 55 A	< 100 A	< 100 A		
Leakage Current		0.8 mA				
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" LCD high-contrast touchscreen
Communication Protocols	Proprietary and OCPP 1.6J
RFID Reader	ISO/IEC 14443 A Mifare RFID reader
Emergency Button	Yes

### CONFIGURATION

Software Upgrade	Yes
Language System	English, Chinese, French, Spanish

### GENERAL CHARACTERISTICS

Protection Rating	IP54 and IK10 (cabinet) / IK8 (touchscreen)				
Housing Material	SGCC, Optional: SUS430				
Operating Altitude	Up to 2000 m				
Operating Temperature	-35 °C to +55 °C				
Storage Temperature	-40 °C to +70 °C				
Humidity	<95%, non-condensing				
Mounting	Free-standing cabinet				
Dimensions (D x W x H) mm	280 x 660 x 1350			640 x 750 x 1650	
Net Weight (kgs)	80	105	175	326	370

### 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				

\*Cable can be customized upon request.

Product specifications are subject to change without further notice