

# MF-DC-EV 300kW

# MF-DC-EV 360kW

## DC EV charger

MasterPower®

- 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 43%.
- 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 15" 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.



15" LCD  
300A air cooled cable

### Product Outlook

Digital connectivity for backend management systems and connected services.

Charger comes equipped with an automatic intelligent power distribution feature, autonomously managing the total power for multiple EV's without any user configuration.

300A Air cooled cable (Peak 500A).

Advertisement screen(Optional) for user engagement and brand promotion.

High brightness, intuitive 15" touchscreen display for true barrier-free access and various customization opportunities.

710 x 750mm Small footprint provides flexibility in installation and enables multiple parking scenarios.



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MODEL		MF-DC-EV 300kW	MF-DC-EV 360kW
Charging Type		DC fast charging	DC fast charging
Outlet Options		C: CCS2 cable , A: CCS1 cable , J: CHAdeMO cable , G: GBT cable	
AC Input Power @ 400V 50Hz		484A/320kVA	582A/384kW
Input Voltage Range		380/400/415 VAC	
Input Frequency		50 Hz or 60 Hz	
DC Outlet	DC Output Power Rating	300 kW	360 kW
	DC Output Voltage	200-1000 Vdc ( Constant power from 300-1000Vdc)	
	Number of EV Served	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	300A air cooled cable (Peak 500A)
CHAdeMO Cables		125A	125A
GBT Cables		250A	250A
Cable Length		5.0 m, Optional: 6.0 m / 7.0 m	
Electro-Magnetic Compatibility		Class A according to EN 61000-6-3:2007	
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)		≥ 0.99	
THDi		≤ 5%	
Efficiency		≥ 94% (peak)	
Standby Power		< 35 W	
Short Circuit Current		10 kA	
Pre-charge Current		< 1 A	
Inrush Current		< 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	15" 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	IP55 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	710 x 750 x 1950	
Net Weight (kgs)	608	672

### 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