

Model # MEVD20K

3-Ph, 380/400/415V, 50/60Hz, 20KW DC Magnizon's Smart DC Fast EV charging stations

Product Description

MEVD20K is a Magnizon's fast EV DC 20KW charger with two charging guns. It can deploy charging network rapidly and effectively, providing high-power quick charging service for all brands of electric vehicles. It has a durable, robust, all-weather enclosure for indoor and outdoor use and support CCS & CHAdeMO standards. This all-in-one DC charger consists of billing control unit, charging control unit, charging module and input / output power distribution unit. It is applicable for expressway, urban public parking station and enterprises' parking lot.



Types of connectors

- ❖ CCS + CHAdeMO default,
- ❖ AC type 2 connectors
- ❖ Optional Multiple configuration (CCS2 , CHAdeMO, type T2)

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Key Features

- ❖ Compact and contemporary design
- ❖ 20 kW/30kW continuous fast charging
- ❖ Robust, all-weather enclosure for indoor and outdoor use(IP54)
- ❖ Highest efficiency in the range : 97%
- ❖ 7" Graphical user interface for status and configurations
- ❖ Single outlet: CCS or CHAdeMO
- ❖ Daylight readable 7" full color touchscreen display
- ❖ RFID reader RFID and ISO 15118 user identification
- ❖ Future proof connectivity:
- ❖ OCPP and network connectivity enabling system integration
- ❖ Capability for remote services
- ❖ Future proof due to DC output voltage range from 200 to 1000 VDC supporting most kinds of electric vehicles.
- ❖ EV standards: IEC 62196, IEC 61851, JEVS G105

Applications

- ❖ Highway Service Stations
- ❖ Short term Parking Offices and Commercial Buildings
- ❖ Public operations such as highway rest stops, petrol stations, airport etc
- ❖ Private operations such as EV dealers, EV fleets etc.
- ❖ Compatible vehicles: BMW, Volkswagen, GM, Porsche, Audi, Nissan, Mitsubishi, Peugeot, Citroen, Kia, Renault, Daimler, Tesla, Smart, Mercedes

Optional Charger connections

IEC DC Charging Systems

	System A CHAdeMO (Japan)	System B GB/T (PRC)	System C	
			COMBO1 (US)	COMBO2 (DE)
Connector				
Vehicle Inlet				

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Specifications

MODEL	MEVD20K
INPUT	
Input voltage	260 ~ 470 V (three-phase five-wire)
Input current	≤60 A
AC input frequency	40 ~ 70 Hz
Efficiency	≥ 97%
Power factor	≥ 0.99
Input THD	≤ 5%
OUTPUT	
Output voltage range	150 ~ 750 V
Rated output current	135 Amp
DC Output power	20KW
DC Voltage Ripple + Noise	500 mVp-p
DC Current Ripple	<1 Arms @ Rated Power
Soft start time	3 ~ 8 s
Voltage regulation accuracy	≤ ± 0.5%
Current regulation accuracy	≤ ± 1%
Ripple coefficient (peak value)	≤ ± 0.5%
Current-sharing unbalanced degree	≤ ± 5% (50% ~ 100% rated load)
Noise	< 60 dB
Protection	Overcurrent, Under voltage, Overvoltage, Residual current, Surge, Short circuit, Ground fault, Emergency shutdown alarm, Over temp, Electric shock, Input phase reversal, Plug out protection
CHARGING CONFIGURATION AND STANDARD	
Number of charging plugs	2
Charging cable length	5 m
Charging protocols	CCS and CHAdeMO
DC Output plug Types Options	CCS2, CCS1, CHAdeMO, GB/T
HMI	7" graphical LCD, Push buttons for commands
Support Languages	Dual language (Local plus English)
Power Management	Configurable dynamic load distribution (dual DC outputs)
User Authentication	ISO / IEC 14443 A / B Mifare RFID reader
Network Interface	Ethernet, GSM/3G/4G, WLAN, Bluetooth
Communication Protocol	OCPP 1.6, others by request
Standards	IEC 62196, IEC 61851, JEVS G105
Quality Standards	ISO9001:2015, ISO14001:2015, RoHs
OTHERS	
Operating temperature	-20°C ~ +60°C
Storage temperature	-40°C ~ +80°C
Relative humidity	≤ 95%
Atmospheric pressure	70 kPa ~ 106 kPa
IP rating	IP 54
Dimensions (W × D × H) (mm)	610*760*860
Weight (kg)	120Kgs

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