

MDC-80 to MDC-240 PRODUCT SUMMARY V1.06

MDC-80/120/160/200/240 All-in-One Charger

80, 120, 160, 200 and 240kW All-in-one DC Chargers

PRODUCT DESCRIPTION

Drawing on a decade of expertise in high-performance batteries and power electronics, Motion Applied delivers a comprehensive range of EV charging solutions.

The portfolio spans **7/22 kW AC charging** through to **720 kW ultra-rapid, distributed DC charging**, engineered for high reliability, low acoustic noise, superior efficiency, and extended service life.

The **MDC series** provides flexible, integrated DC charging options at **80 kW, 120 kW, 160 kW, 200 kW, and 240 kW**, enabling scalable deployment for diverse infrastructure requirements.



ELECTRICAL SPECIFICATIONS	
DC Output Power	80kW, 120kW, 160kW, 200kW and 240kW variants
DC Output Current (Max)	400A continuous, 500A peak
DC Output Voltage	150 – 1,000 Vdc
Efficiency Factor (Max)	96.5%
Power Factor	0.98
EV Connector	IEC 62196 CCS2 Cable
Charging Mode	Mode 4
High Level Comms.	DIN70121 & IEC15118
Card Reader	RFID ISO14443A Mifare
Charge Indicator	RGB LED
Touch Screen	21.5"
Connectivity	Ethernet/ Wi-Fi/ LTE
Backend Comms.	OCPP 1.6 & OCPP 2.0.1

PHYSICAL SPECIFICATIONS	
Dimensions (W x D x H)	866 x 558 x 2032 mm
Number of Connectors	2
Cable Length	5 metres
Environmental Protection	IP54 (Outdoor)
Impact Rating	IK10
Operating Temperature	-35 °C to +50 °C
Storage Temperature	-40 °C to +75 °C
Relative Humidity	5% to 95% (non-condensing)

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MANAGEMENT SPECIFICATIONS	
Central management	OCPP compliant station control and monitoring system
Firmware updates	Automatic firmware updates from the cloud
Smart charging	Via OCPP charging profiles
Dynamic load balancing	Dynamic load balancing between connectors

MOUNTING METHOD	
Mounting Method	Concrete Surface
Input Cable Connection	Bottom

PRODUCT RANGE

Motion Applied offers the full range of white-labelled charging solutions from 7/22kW AC units to 720kW DC distributed charging with a 1.5 MW DC charger coming soon¹

1 **AC Charging**
MAC-722
Untethered and tethered variants



7.4 / 22 kW AC
Combined unit
Screen: 7" or 5"
or no-screen
1x or 2x CCS2

2 **All-in-one DC**
MDC-80/120/
160/200/240



**80 kW DC
120 kW DC
160 kW DC
200 kW DC
240 kW DC**
Screen: 21.5"
2 x CCS2

3 **Satellite DC**
DPU-240/600/
720 power units
HCD-500 dispensers



600kW distributed DC
with **500A satellite dispensers** and **BESS**²
(240kW and 720kW power units also available)
Screen: 10.1"
Up to 12x CCS2

4 **Megawatt DC**
1.5MW
Power Unit



1,500 kW
distributed DC
Screen and connectors TBC

ON THE PRODUCT ROADMAP

Source: Motion Applied; Note 1: 1.5 MW DC charging capable of charging 300kWh in 15 minutes; Note 2: Battery Energy Storage System

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