

# MDC-80/ MDC-120/ MDC-160/ MDC-200/ MDC-240

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

Motion Applied's electric vehicle (EV) charging architecture harnesses decade long involvement in the development of high-performance batteries and power electronics.

Motion Applied's EV charging portfolio offers the complete range of charging options from combined 7/22kW AC charging through to 720kW ultra-rapid, distributed charging with elevated levels of reliability, low noise, high efficiency, and long life.

The MDC charging range offers flexible, all-in-one DC charging solutions at 80kW, 120kW, 160kW, 200kW and 240kW to suit your needs.



## ELECTRICAL SPECIFICATIONS

- DC Output Power 80kW, 120kW, 160kW  
200kW & 240kW variants
- DC Output Current (Max) 400A continuous
- 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 Milfare
- Charge Indicator RGB LED
- Touch Screen 10.1"
- Connectivity Ethernet/ WiFi/ LTE
- Backend Comms. OCPP 1.6 & OCPP 2.0.1

## MOUNTING METHOD

- Mounting Method Concrete Surface
- Input Cable Connection Bottom

## 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)

## MANAGEMENT SPECIFICATIONS

- Central Management OCPP compliant station control and monitoring management system
- Firmware Updates Automatic firmware updates from the cloud
- Smart Charging Via OCPP charging profiles
- Dynamic Load Balancing Dynamic load balancing between connectors

## MDC-120/ MDC-160/ MDC-200 PRELIMINARY PRODUCT SUMMARY

**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 soon<sup>1</sup>**

- 1** 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** 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** DPU-240  
power units  
HCD-500  
dispensers



**240 kW**  
distributed DC  
with **500A**  
**dispensers**

Screen: 10.1"  
Up to 6x CCS2

- 4** DPU-600/720  
power units  
HCD-500  
dispensers



**600/ 720 kW**  
distributed DC  
with **500A**  
**dispensers**

Screen: 10.1"  
Up to 12x CCS2

- 5** 1.5MW  
Power Unit



**1,500 kW**  
distributed DC

Screen and  
connectors  
TBC

**ON THE PRODUCT  
ROADMAP**

Source: Motion Applied; Note1: 1.5 MW DC charging capable of charging 300kWh in 15 minutes