

HCD-500 PRODUCT SUMMARY V1.10

HCD-500 High Power EV Charging Dispenser

Charging Dispenser for Distributed Systems

PRODUCT DESCRIPTION

Built on McLaren Applied's decade of expertise in high-performance batteries and power electronics, Motion Applied delivers an ultra-rapid, distributed DC charging system engineered for reliability, efficiency, and long service life.

The **HCD-500** is a high-speed, distributed charging dispenser engineered for ultra-fast EV charging. Designed to operate seamlessly with the **DPU-600** power unit, it delivers dynamic power distribution to meet the demands of modern EV infrastructure.



GENERAL SPECIFICATIONS	
Application Environment	Indoor/ Outdoor
Operating Temperature Range	-35 °C to +50 °C
Storage Temperature Rang	-40 °C to +75 °C
Relative Humidity	5% to 95%
Dimensions (W x D x H)	463 x 299 x 1698 mm
Installation Mode	Floor-mounted
IP Rating	IP54
Impact Protection Level	IK10

POWER INPUT & OUTPUT	
Charge Power (configurable)	60 to 500 kW
In/ Out Voltage	200 to 1000 Vdc
In/ Out Current	400 A continuous, 500 A maximum
Cable Length	> 4 m
Connector	2
Cable Management System	Available
Vehicle Connection	IEC 62196 CCS 2

USER INTERFACE & COMMUNICATION	
Connection Protocol	TCP/ IP
Communication Protocol	OCPP 1.6 & 2.0.1
Communication	Wi-Fi/ Ethernet/ LTE
Display	10.1" touchscreen, IK10 anti-reflective
Charger Status Information	RGB LED, Mobile Application, Display
RFID Card Reader	Mifare (ISO-14443-A)
Standard Language Support	English ¹

1. Other languages available on request

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PROTECTION	
Isolation Monitoring Device	IMD
Overcurrent/Circuit Protection	2 x 315 A Fuse
Over-temperature Protection	Configurable 60 °C to 80 °C

MANAGEMENT SPECIFICATION	
Software Update	Automatic remote update
Dynamic Load Balancing	Active load balancing between connectors
Central Management	OCPP compatible station control and management system

COMPLIANCE	
EN 61851-1 2019, IEC 62955 2018, IEC 61008-1 2010, IEC/EN 62196-1, IEC 62368-1, IEC 61439-1, ISO 14443-A	

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 soon!

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 BESS²
(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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