

# HCD-500 High Power EV Charging Dispenser

# High Power Charging Dispenser for Distributed Systems

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

The complete charging solution provides ultra-rapid, dynamic EV charging with high levels of reliability, low noise, high efficiency, and long life.

Motion Applied's HCD-500 is a distributed system, high-speed charging dispenser developed in close collaboration with Motion Applied's strategic partners. It is intended to be used with Motion Applied's DPU-600 Electric Vehicle Charger Power Unit<sup>1</sup>.



#### **GENERAL SPECIFICATIONS**

Application Environment Indoor/ Outdoor
 Operating Temperature Range -35 °C to +50 °C
 Storage Temperature Range -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 th > 4 m

Cable Length > 4 m
 Connector 2
 Cable Management System Available

Vehicle Connection
 IEC 62196 CCS 2

#### **USER INTERFACE & COMMUNICATION**

Connection Protocol
 Communication Protocol
 Communication
 Communication
 Display
 TCP/ IP
 Wi-Fi/ Ethernet/ LTE
 Display
 Introduction
 IK10 anti-reflective
 Charger Status Information
 RGB LED, Mobile Application,

Display

RFID Card Reader Mifare (ISO-14443-A)

Standard Language Support English<sup>2</sup>

### **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
 Dynamic Load Balancing
 Active load balancing<sup>3</sup>

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

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See DPU-600 product summary sheet

Other languages available on request

Between connectors



## HCD-500 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> MAC-722 MDC-80 **DPU-240** DPU-600/720 1.5MW Untethered /120/160 power units Power Unit power units /200/240 and tethered HCD-500 HCD-500 variants dispensers dispensers 7.4 /22 kW AC **80 kW** DC 240 kW 600/ 720 kW 1,500 kW **120 kW** DC distributed DC distributed DC Combined distributed DC **160 kW** DC unit with 500A with 500A 200 kW DC dispensers dispensers Screen: 240 kW DC 7" or 5" Screen and Screen: 21.5" Screen: 10.1" Screen: 10.1" or no-screen connectors **TBC** Up to 6x CCS2 Up to 12x CCS2 1x or 2x CCS2 2 x CCS2 ON THE PRODUCT ROADMAP Source: Motion Applied; Note1: 1.5 MW DC charging capable of charging 300kWh in 15 minutes

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