

HCD-500 PRELIMINARY PRODUCT SUMMARY

HCD-500 High Power EV Charging Dispenser

High Power Charging Dispenser for Distributed Systems

McLaren Applied's electric vehicle charging architecture harnesses McLaren Applied's 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.

McLaren Applied's HCD-500 is a distributed system, high-speed charging dispenser developed in close collaboration with McLaren Applied's strategic partners. It is intended to be used with McLaren Applied's DPU-600 Electric Vehicle Charger Power Unit¹.



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
- 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 English²

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 balancing³
- 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

¹ See DPU-600 product summary sheet
² Other languages available on request
³ Between connectors

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McLaren Applied offers the full range of white -labelled charging solutions from 7kW/ 22kW combined AC units to 1.5MW DC charging

1 MAC-722



**7.4 / 22 kW AC
combined unit**

Wall mounted
5" and 7" screen and
non-screen options
Single or dual CCS2

2 MDC-120
MDC-160
MDC-200



**120 kW DC
160 kW DC
200 kW DC**

Floor mounted
10.1" touchscreen
2 x CCS2
charging guns

3 DPU-240 and
DPU-360
power units
HCD-500
dispensers



**240 kW AC/DC
360 kW AC/DC
with 500A
dispensers**

Floor mounted
10.1" touchscreen
Up to 6x CCS2
charging guns

4 DPU-600 and
DPU-720
power units
HCD-500
dispensers



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

Floor mounted
10.1" touchscreen
Up to 12x CCS2
charging guns

5 1.5MW
Power Unit



**1,500 kW AC/DC
with 2,400A
dispensers**

20 kWh energy
per minute
Charges
300kWh
in 15 mins

Source: McLaren Applied