

MAC-722 Combined AC Charger

Combined 7.4kW / 22kW AC Charging Unit

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 MAC-722 is a highly configurable AC charger developed in close collaboration with partners.



KEY FEATURES

- Max power per connector 7.4kW single phase
 22kW three phase
- Max current per connector 32A
- Voltage rating, single phase 230Vac +/-10%
- Voltage rating, three phase 400Vac +/-10%
- Number of EV connectors Single or dual

POWER INPUTS & OUTPUTS

- Input cable connection Top or bottom
- EV Connector IEC 62196
 Type2 Socket or cable
- Charging mode IEC 61851 Mode 3
- Card reader RFID ISO14443A Mifare
- Charge Indicator RGB LED
- Backend comm protocol OCPP 1.6 & OCPP 2.0.1
- Overcurrent protection Integrated fuse plus
 digital monitoring
- Residual current 30mA AC & 6mA DC
 protection

PHYSICAL SPECIFICATIONS

- Dimensions 247mm x 183.5mm x 411.5mm
- Environmental protection IP 54 (outdoor)
- Impact rating IK10
- Ambient conditions -30°C to +50°C (non-condensing)
- Mounting method Wall / Pedestal / Kiosk

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 in dual connector
 versions

OPTIONAL FEATURES

- Touch screen 5", 7" or no screen options
- Connectivity Ethernet / Wi-Fi / 4G LTE
- High level communication IEC 15118 compliant PLC interface
- Energy metering Energymeter
- Schuko socket 2,3 kW / 10A IEC 61884-1
 compliant sockets (single or dual)

MAC-722 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 soon¹

- 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