

DPU-600 PRODUCT SUMMARY V1.11

DPU-600 EV Charger Power Unit

Ultra-Rapid, 600kW Distributed Power Unit

PRODUCT DESCRIPTION

Leveraging McLaren Applied's decade of expertise in high-performance batteries and power electronics, Motion Applied delivers an ultra-rapid, distributed DC charging solution engineered for reliability, efficiency, and longevity.

At its core, the **DPU-600** power unit enables **600 kW DC charging** with support for **up to 12 connectors**, making it ideal for high-demand public and private installations requiring scalable, ultra-fast charging.



GENERAL SPECIFICATIONS	
Dimensions (W x D x H)	1700 x 800 x 2150 mm
Power Configuration	600 kW
Installation mode	Floor mounted
System Efficiency	94.7% (Full load) 96.0% (Max efficiency)
Cooling	Liquid
IP Rating	IP55
Communication interface	4G, FE ¹

INPUT SPECIFICATIONS	
Rated Input Voltage	2 x 400 Vac ²
Rated Frequency	45-66 Hz
Rated Input Current	≤ 931 A (600 kW)
Input Module	120 kW AC/DC ³
Power Factor	≥ 0.99 (Load ≥ 50%)
THDi	≤ 5% (Load ≥ 50%)

OUTPUT SPECIFICATIONS	
Output Voltage	200 to 1000 Vdc
Output Power	600 kW
Output Module	60 kW DC/DC ³
Output Current Tolerance	≤ ±1% (Load: 20% to 100%)
Output Voltage Tolerance	≤ 0.5%
Charging Connectors	Max 12 (Max 8 x 500A)

1. Northbound communication
2. Three-phase five-wire system
3. Liquid-cooled module.

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ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	-35 °C to +50 °C
Storage Temperature	-35 °C to +70 °C
Altitude	≤ 4000 m
Relative Humidity	5% to 95% (Non-condensing)
Noise	≤ 55 dB @ 25°C (Mute mode) ≤ 60 dB @ 25°C (Full load at 1m)

COMPLIANCE
IEC 61851-1, IEC 61851-23, IEC 61851-21-2

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 soon¹

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

Source: Motion Applied; Note 1: 1.5 MW DC charging capable of charging 300kWh in 15 minutes; Note 2: Battery Energy Storage System

ON THE PRODUCT ROADMAP

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