

Green Motion DC 240 Green Motion DC 360 Technical datasheet

Available power DC 240:
120 / 180 / 240 kW

Available power DC 360:
300 / 360 kW



Powering Business Worldwide

Discover Green Motion DC 240/360 EV chargers

The Green Motion DC 240 and Green Motion DC 360 are part of Eaton's high-power DC EV charger range, designed to meet the growing demand for HPC (High-Power Charging). These chargers are ideal for deployment in public, semi-public, and private settings, including commercial and industrial facilities. The Green Motion DC 240/360 HPC chargers offer multiple benefits, such as:

- High output power ranging from 120 to 360 kW, enabling efficient and high-speed EV charging
- Compatibility to a wide range of electric vehicles to ensure convenient charging to a diverse group of end users
- Dual simultaneous charging



Convenience

The Green Motion DC 240/360 EV chargers offer a convenient experience for the ease of mind to installers and operators alike. Features offered by the EV chargers help compliance with different local regulations such as Energy Meter French decree (LNE) or Eichrecht (MessEG). The integrated payment terminal is also in line with the Alternative Fuel Infrastructure Regulation. Serviceability is improved with digital enablement, thanks to over-the-air (OTA) upgrades and remote diagnostics.



Cost saving

The billing and payment options included through the built-in POS terminal not only provide end users with a smooth charging session, but also enable revenue generation for the charger.



Efficiency

The Green Motion DC 240/360 chargers are designed to meet the evolving demands of EV charging, emphasizing reliability, adaptability, and future readiness. Their modular architecture simplifies maintenance and enhances scalability, allowing for future upgrades such as Plug & Charge features, ensuring alignment with emerging standards and technologies. With a focus on user-friendly operation and sustainability, these chargers set the stage for a seamless EV charging experience.



Versatility

The Green Motion DC 240/360 EV chargers are exclusively designed for floor-mounted installations, making them ideal for high-speed charging scenarios. These chargers integrate efficiently into various parking or charging station environments, supporting new installations while delivering superior performance and upgrade solutions for high-power charging infrastructure. The power of the charger can be upgradable on the field later on to increase revenue generation.

Technical specifications

Technical disclaimer

All drawings, descriptions or illustrations contained in this document serve to provide a clear overview and/or technical explanation of the present product and its various components and accessories. In line with our goal to continuously improve the products and the customer service we provide, all specifications contained in this document are subject to change without notice.

Technical specifications – Green Motion DC 240/360

Model	GREEN MOTION DC 240			GREEN MOTION DC 360	
Power output	120 kW	180 kW	240 kW	300 kW	360 kW
Power input					
Input nominal voltage	3-phase, 400 Vac L-L				
Input voltage range	340 Vac – 460 Vac				
Input current (nominal)	187 A	280 A	373 A	466 A	560 A
Input current (maximum)	215 A	322 A	429 A	536 A	644 A
Input frequency	50/60 Hz ± 10 %				
Grid systems	3-phase TN-S, TN-C, TN-C-S, TT				
Power factor (at full load)	> 0.99				
Input current TDD (at full load)	< 5 %				
Peak efficiency	94 %				
Power output					
DC output voltage	150 – 1000 Vdc				
Maximum output power	120 kW	180 kW	240 kW	300 kW	360 kW
Maximum output current	400 A	500 A		500 A	
Charging cable and connector	2x CCS2 @ 300 A, 5 m length, 500 A boost mode (400 A for 120 kW)				
Simultaneous charging	Yes				
Cable management	Yes				
Environmental					
Operating temperature	-35 °C to +55 °C (derating after 40 °C)				
Storage temperature	-40 °C to +80 °C				
Acoustic noise	60 dBA @ 3 m				
Altitude	Up to 2000 m				
Installation	Indoor or outdoor				
Humidity	< 95 % relative humidity				
Mechanical					
Mounting method	Floor-mounted				
Power input cable entry	Bottom				
Dimensions (W x H x D) in mm	750x2084x710				
Weight of the charging station (kg)	498	532	566	600	634
Material	SUS430 Stainless Steel				
Degree of protection	IP55				
Impact strength	IK10				
Protection					
Protections	Short circuit, overload protection, surge protection, protective earth, insulation failure				
Other monitoring	Overcurrent, overvoltage, undervoltage, emergency stop, door interlock, thermal protection				
User interface and control					
User interface	32" display with 4 control buttons LED status indicator, DC meter displays				
Authentication methods	RFID (ISO/IEC 14443A/B, ISO/IEC 15693) Free Charge Mobile App (Not included) ISO15118-2 Plug & Charge (upgradable by OTA)				
Paymentterminal	Yes (Optional)				
Connectivity					
Network connection	Wired: Ethernet (10/100Mbps) Cellular: LTE 4G				
Communication protocol	OCPP 1.6j, upgradable to OCPP 2.0.1				
Remote monitoring	Yes				
Firmware upgrade	Over-the-air (OTA)				

E-metering	
MID	Yes
Eichrecht	Yes (Optional)
LNE	Yes
Standards	
Safety compliance	IEC 61851-1, IEC 61851-23
Electromagnetic compatibility (EMC)	IEC 61851-21-2 Class A (Non-Residential) EN 301 489-1 (EMC generic) EN 301 489-3 (RFID) EN 301 489-52 (4G) EN 301 489-17 (Wi-Fi)
Electromagnetic field (EMF)	EN IEC 62311: 2020 EN 50665: 2017
Radio (EU only)	EN 300 328 (2.4G) EN 301 511 (2G) EN 301 908-1/2 (3G) EN 301 908-13 (LTE) EN 300 330 (NFC)
ROHS3	EN IEC 63000: 2018
ISO15118-2 Plug & Charge ready	Yes (upgradable by OTA)
Special requirements invoked	EN 18031-1: 2024 EN 18031-2: 2024

Product part numbers

TYPE	CODE	DESCRIPTION
120 kW	GMDA255BBAG00E00	STATION 120KW 2xCCS2 300A + DC MID
	GMDA255BBAH00E00	STATION 120KW 2xCCS2 300A + DC MID + POS
	GMDA255CBAH00E00	STATION 120KW 2xCCS2 300A + DC MID + POS – EICHRECHT VERSION
180 kW	GMDA855BBAG00E00	STATION 180KW 2xCCS2 300A-500A + DC MID
	GMDA855BBAH00E00	STATION 180KW 2xCCS2 300A-500A + DC MID + POS
	GMDA855CBAH00E00	STATION 180KW 2xCCS2 300A-500A + DC MID + POS – EICHRECHT VERSION
240 kW	GMDB455BBAG00E00	STATION 240KW 2xCCS2 300A-500A + DC MID
	GMDB455BBAH00E00	STATION 240KW 2xCCS2 300A-500A + DC MID + POS
	GMDB455CBAH00E00	STATION 240KW 2xCCS2 300A-500A + DC MID + POS – EICHRECHT VERSION
300 kW	GMDC055BBAG00E00	STATION 300KW 2xCCS2 300A-500A + DC MID
	GMDC055BBAH00E00	STATION 300KW 2xCCS2 300A-500A + DC MID + POS
	GMDC055CBAH00E00	STATION 300KW 2xCCS2 300A-500A + DC MID + POS – EICHRECHT VERSION
360 kW	GMDC655BBAG00E00	STATION 360KW 2xCCS2 300A-500A + DC MID
	GMDC655BBAH00E00	STATION 360KW 2xCCS2 300A-500A + DC MID + POS
	GMDC655CBAH00E00	STATION 360KW 2xCCS2 300A-500A + DC MID + POS – EICHRECHT VERSION

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