

Green Motion DC 30 and Green Motion DC 60 Technical datasheet



Powering Business Worldwide

Discover Green Motion DC 30/60 EV chargers

Green Motion DC 30 and Green Motion DC 60 are part of Eaton's future-proof DC EV charger range, which can easily be deployed in terms of space and connectivity to address charging needs in private, public and semi-public settings, including both commercial and industrial buildings. The Green Motion DC 30/60 EV chargers provide multiple benefits, such as:

- High output power of 30 or 60 kW for fast EV charging
- Compatibility to a wide range of electric vehicles to ensure convenient charging to a diverse group of end users
- Bi-directional compliance thanks to V2G & V2B readiness



Convenience



The Green Motion DC 30 and Green Motion DC 60 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 Smart UK, 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



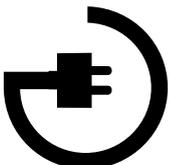
Operation and maintenance costs can be reduced thanks to the EV chargers' integrated protection. Expenses for installation can also be lowered by avoiding major grid upgrades and balancing the load consumption. The billing and payment options included through the built-in POS terminal not only provide end users with a smooth charging session, but also enable revenue generation for the charger.

Efficiency



The Green Motion DC 30 and 60 chargers are in line with the latest demands and future tendencies when it comes to EV charging. First, the Vehicle to Grid (V2G) application ensures synchrony with the power grid, creating a more sustainable energy infrastructure. Second, the Plug & Charge system rooted in the ISO15118-2 standard facilitates authentication and authorization for an enhanced user experience.

Versatility



The Green Motion DC 30 EV charger allows for a number of different mounting varieties, from wall-, to floor-mounted installation options. Along with the Green Motion DC 60, the EV chargers can be introduced into any parking space setting, supporting new installations and cost-efficient retrofitting as well.

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 30

Power input	
Input nominal voltage	3-phase, 400 V L-L
Input voltage range	350 Vac – 460 Vac
Input current (nominal)	47 A
Input current (maximum)	54 A
Input frequency	50/60 Hz ±10%
Grid compatibility	3 phase (Compatible to TT, TN)
Power factor	> 0.99
Input current TDD	< 5 %
Peak efficiency	96 %
Standby input power	Less than 20 W
Power output	
DC output voltage	150 – 1000 V DC
Maximum output power	30 kW
Maximum output current	80 A
Charging cable & connector	1x CCS2 @ 80 A, 5 m length
Environmental	
Operating temperature	–35 °C to +55 °C (derating after 45 °C)
Storage temperature	–40 °C to +80 °C
Acoustic noise	50 dBA @ 3 m
Altitude	Up to 2000 m
Installation	Indoor or outdoor
Humidity	< 95% relative humidity
Mechanical	
Mounting method	Wall-mounted / Floor-mounted pedestal (Optional)
Power input cable entry	Top / Bottom
Dimensions (W x H x D) in mm	580 x 700 x 240
Weight of the charging station	60 kg
Material	Stainless steel
Degree of protection	IP55
Impact strength	IK10 for enclosure / IK08 for display and DC meter cover
Protection	
Protections	Short circuit, overload protection, surge protection, protective earth, insulation failure
Other monitoring	Over current, over voltage, under voltage, emergency stop, door interlock, thermal protection, tilt detection
User interface and control	
User interface	10" display with 4 control buttons LED status indicator, DC meter display
Authentication methods	RFID (IEC 14443 / IEC 15693) ISO 15118-2 Free charging Mobile app (Not included)
Payment terminal	Yes (Optional)
Connectivity	
Network connection	Wired: Ethernet Wireless: Wi-Fi (IEEE 802.11b/g/n) Cellular: 4G
Communication protocol	OCPP 1.6J, upgradable to OCPP 2.0.1
Communication interface	Modbus TCP/IP, Modbus RTU
Remote monitoring	Yes
Firmware upgrade	Over-the-air (OTA)

E-metering	
MID	Yes (Optional)
Eichrecht	Yes (Optional)
LNE	Yes (Optional)
Standards	
Safety compliance	IEC 61851-1, IEC 61851-23*
Electromagnetic compatibility (EMC)	IEC 61851-21-2 Emissions: Class B (Residential) Immunity: Class A (Non-Residential)
Electromagnetic field (EMF)	IEC 62311: 2008
Radio (EU only)	EN 301 489-1 V2.2.3: 2019 (EMC generic) EN 301 489-3 V2.1.1: 2019 (RFID) EN 301 489-52 V1.1.2: 2020 (4G) EN 301 489-17 V3.2.4: 2020 (Wi-Fi)
ROHS (EU)	EN IEC 63000: 2018
ISO15118-20 HW-ready	Yes
ISO15118-2 Plug & Charge	Yes (upgradable by OTA)
Eichrecht	Yes (Optional)
Smart UK	Yes

* IEC 61851-23: 2014; New version IEC 61851-23: 2023

Technical specifications – Green Motion DC 60

Power input		
Input nominal voltage	3-phase, 400 V L-L	
Input voltage range	350 Vac – 460 Vac	
Input current (nominal)	94 A	
Input current (maximum)	108 A	
Input frequency	50/60 Hz ±10%	
Grid compatibility	3 phase (Compatible to TT, TN)	
Power factor	> 0.99	
Input current TDD	< 5%	
Peak efficiency	96%	
Standby input power	Less than 35 W	
Power Output	1 connector	2 connectors
DC output voltage	150 – 1000 V DC	
Maximum output power	60 kW	
Maximum output current	160 A	
Charging cable & connector	1x CCS2 @ 200 A, 5 m length	2x CCS2 @ 200 A, 5 m length
Simultaneous charging	N/A	Yes
Cable management	Optional	
Environmental		
Operating temperature	-35°C to +55 °C (derating after 45°C)	
Storage temperature	-40°C to +80 °C	
Acoustic noise	53 dBA @ 3 m	
Altitude	Up to 2000 m	
Installation	Indoor or outdoor	
Humidity	< 95% relative humidity	
Mechanical	1 connector	2 connectors
Mounting method	Floor-mounted	
Power input cable entry	Bottom	
Dimensions (W x H x D) in mm	675 x 1800 x 240	
Weight of the charging station	150 kg	170 kg
Material	Stainless steel	
Degree of protection	IP55	
Impact strength	IK10 for enclosure / IK08 for display & DC meter cover	
Protection		
Protections	Short circuit, overload protection, surge protection, protective earth, insulation failure	
Other monitoring	Over current, over voltage, under voltage, emergency stop, door interlock, thermal protection, tilt detection	

User interface and control	
User interface	10" display with 4 control buttons LED status indicator, DC meter display
Authentication methods	RFID (IEC 14443 / IEC 15693) ISO 15118-2 Free charging Mobile App (Not included)
Payment terminal	Yes (Optional)
Connectivity	
Network connection	Wired: Ethernet Wireless: Wi-Fi (IEEE 802.11b/g/n) Cellular: 4G
Communication protocol	OCPP 1.6J, upgradable to OCPP 2.0.1
Communication interface	Modbus TCP/IP, Modbus RTU
Remote monitoring	Yes
Firmware upgrade	Over-the-air (OTA)
E-metering	
MID	Yes (Optional)
Eichrecht	Yes (Optional)
LNE	Yes (Optional)
Standards	
Safety compliance	IEC 61851-1, IEC 61851-23*
Electromagnetic compatibility (EMC)	IEC 61851-21-2 Emissions: Class B (Residential) Immunity: Class A (Non-Residential)
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ROHS (EU)	EN IEC 63000: 2018
ISO15118-20 HW-ready	Yes
ISO15118-2 Plug & Charge	Yes (upgradable by OTA)
Eichrecht	Yes (Optional)
Smart UK	Non applicable

* IEC 61851-23: 2014; New Version IEC 61851-23: 2023

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