

Green Motion DC 22 Technical datasheet



Discover Green Motion DC 22

This Eaton Green Motion DC 22 product is an easy-to-use 22 kW charging solution designed for fast charging market-based battery electrical vehicles.



DC charging for everyone

Green Motion DC 22 enables safe identification and secure payment through RFID, third-party mobile applications or the Eaton Scan & Charge intelligent software. The DC EV charger is easy-to-use with a 10-inch color touchscreen display.



Fast charging speed, high efficiency

Green Motion DC 22 circumvents the limitations of on-board chargers in electric vehicles by powering the vehicle's battery directly. Charger efficiency up to 96% along with low standby consumption reduces overall operating costs.



Future-proof EV charger

Green Motion DC 22 is designed to be vehicle-to-grid ready (V2G).



Compact charging station

Green Motion DC 22 is the most compact DC charger on the market. It can be fixed to the wall or floor-mounted as an option.



Quiet DC charging experience suited to all types of vehicles

Green Motion DC 22 is available with either CCS or CCS and CHAdeMO plugs. The DC EV charger is designed to be very silent when charging.

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

Power input	
Input voltage AC	3 x 400 V 50 Hz
Nominal input current AC	3 x 32 A (22 kW)
Power factor	> 0.99
Earthing system	TN, TT
Phase	3-phase
Power output	
Nominal output power	22 kW
Output voltage for the DC range	50 V - 500 V
Output current DC at nominal power 22 kW	55 A
Output type	- CCS 2 (default) - CCS 2 and CHAdeMO (optional)
Efficiency	≤ 96 %
Simultaneous charging	1
User interface and control	
User interface	Visual charging status indicators, 10-inch color touchscreen display
Access Control	RFID, Scan & Charge
Network interface	Ethernet (RJ45) cable
Remote management	Eaton Charging network manager
Display languages	English, French and German - other languages on request
Environmental	
Operating temperature	-25 °C to +45 °C
Altitude	Up to 2000 m
Installation	Wall-mounted; indoor or outdoor
Humidity	< 95 % relative humidity
Mechanical	
Dimensions (H x W x D) in mm	520 x 630 x 265
Weight of the charging station excluding cables	53 kg
Housing material	Stainless steel
Cooling	Forced air
Cable length	5 meters
Standards	
Conformity	IEC 61851-1
Degree of protection	IP54
Impact strength of the charger	IK10
Impact strength (screen and RFID)	IK08
Communication protocol	OCPP 1.6J or superior
Bidirectional	Vehicle-to-grid (V2G) ready
Protection	Overcurrent, undervoltage, overvoltage, residual current, surge protection, short circuit, over temperature, ground fault, galvanically insulated
Options	
Cable	CHAdeMO
Floor-mounted	Floor-mounted with a column
Network interface	3G/4G
Software licenses	Eaton Scan & Charge Eaton Charging network manager
Warranty	
Warranty	2 years

Certifications and standards

General	
Charging mode	IEC 61851-21-1, IEC 61851-21-2, IEC 61851-23 and IEC 61851-24
Insulation	IEC 60664-1
Safety	IEC 61439-1 and IEC 61439-7
Cable	
Version	IEC 62196-1 and IEC 62196-3
Electromagnetic compatibility	
Product	IEC 61000-6-1 and IEC 61000-6-3 IEC 61000-3-11 and IEC 61000-3-12
Communication	
ISO	15118
DIN	70121
CHAdEMO	0.9/1.2

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