Green Motion DC 22 Technical datasheet

E·T·N

Powering Business Worldwide

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).

Optimised placing configuration for any parking design

Both the fixed and mobile versions are suitable for indoor or outdoor use. Thanks to its compact design Green Motion DC 22 can be wall-mounted or floor-mounted while Green Motion DC 22 Mobile is installed on a trolley and can be moved easily for its users. It can be fixed to the wall, installed on a trolley or floor-mounted.

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	Green Motion DC 22	Green Motion DC 22 Mobile
Input voltage	3 x 400 V 50 Hz	
Maximum input current	3 x 32 A (22 kW)	
Power factor	> 0.99	
Earthing system	TN, TT	
Phase	3-phase	
AC power supply and connector	N/A	Cable length: 15 m Connector type: CEE, 5-pole Connector ingress protection rating: IP44
Power output		
Output power [1]	22 kW	
Output voltage	50 V - 500 V	
Maximum output current	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; floor-mounted (optional)	Mounted on a trolley
Humidity	< 95 % relative humidity	
Mechanical		
Dimensions (H x W x D) in mm	520 x 630 x 265	947 x 984 x 453
Net weight (without the cables)	53 kg	93 kg
Housing material	Stainless steel	
Cooling	Forced air	
Charging 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-mounting pedestal	N/A
Network interface	3G/4G	
Software licences	Eaton Scan & Charge Eaton Charging network manager	
Warranty		
Warranty	3 years	

[1] The actual power output may vary due to external factors, such as the available grid power, capacity of the electrical installations, and the electric aircraft model.

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

F·A·T·N
Powering Business Worldwide