

Green Motion Duo Technical Datasheet

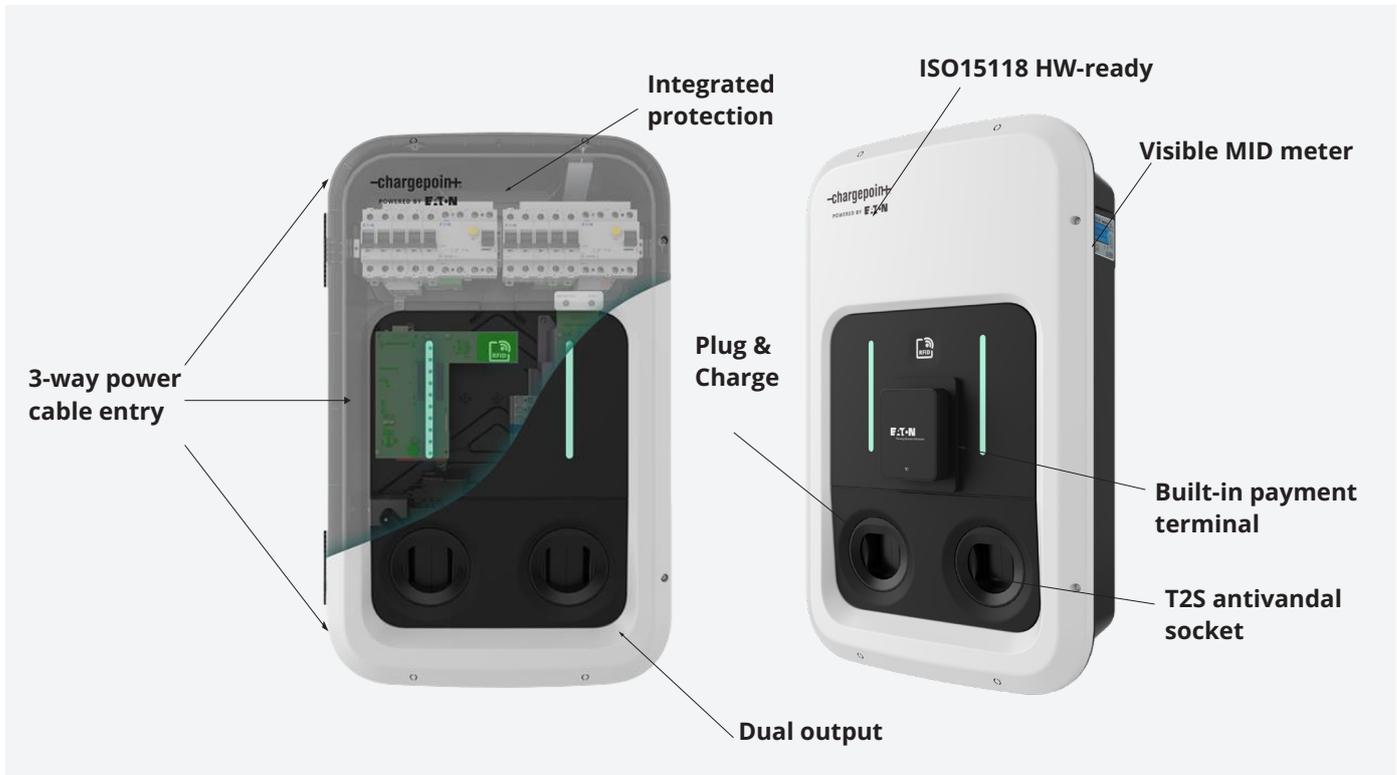


Powering Business Worldwide

Discover Green Motion Duo

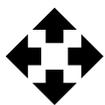
Eaton Green Motion Duo is an AC electric vehicle charger with a dual output design. This EV charger is suitable for indoor and outdoor use, both in public and semi-public settings such as in multi-family properties, offices, and other commercial buildings. The Green Motion Duo EV charger provides multiple benefits, such as:

- Convenient simultaneous charging with safety features rooted in years of technical expertise
- Wall-, and floor-mount installation options to help space optimization
- Static and dynamic load balancing algorithms



Efficient and future-proof

The dual charger delivers up to 2x22 kW power through its dual output system. Thanks to the features rooted in the ISO15118-20 and ISO15118-2 standards, the Green Motion Duo chargers are in line with the latest demands and future tendencies when it comes to EV charging. First, the V2X application ensures synchrony with the power grid, creating a more sustainable energy infrastructure. Second, the Plug & Charge system facilitates authentication and authorization for an enhanced user experience.



Versatile and compatible

The Green Motion Duo offers flexible EV charger adaptability to any setup through its three-way power introduction, fitting perfectly into any parking space design. The easily scalable solution serves the diverse charging needs of multi-family properties, office buildings and other public/semi-public sites.



Safe and simple installation

With its master-node architecture, the Green Motion Duo EV chargers require a maximum of 10 minutes of commissioning. However, the ease of installation and deployment never comes at the expense of safety. On the contrary, the integrated protection with MCB, RCCB and shunt-trip offers full security while minimizing complementary components, thus making installation cost-effective and swift.



Cost saving and revenue generation

Reduce operation and maintenance costs by integrating protection, commissioning, and master-node architecture features. Green Motion Duo also allows to lower installation costs by avoiding grid upgrades and balancing the load consumption.

The EV charger enables revenue generations as billing and payment options are included through the built-in payment terminal, certified energy measurement, RFID authentication, OCPP-based software integration, as well as Plug&Charge readiness.

Technical specifications

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.

Power input	
Input voltage	1 x 230 V - 1 phase 3 x 400 V - 3 phase
Input current	Up to 2x 32 A Up to 1x 64 A
Input frequency	50 Hz, 60 Hz
Grid compatibility	TN, TT, 230V-IT
Power output	
Output power ¹	Up to 2x 22 kW
Output type	2x T2S Socket with interlock
Simultaneous charging	2
Environmental	
Operating temperature	-30°C to +55 °C ⁴
Storage temperature (charger)	-40°C to +80°C
Storage temperature (payment terminal)	-35°C to +70°C
Altitude	Up to 2000 m
Installation	Indoor or outdoor
Relative humidity	< 95% non-condensing
Mechanical	
Mounting method	Wall-mount Floor-mount pedestal (Optional)
Power input cable entry	Top ^{2,3} , bottom and back
Dimensions (W x H x D) in mm	415 x 663 x 168 (196 with payment terminal)
Weight	Up to 15 kg
Housing material	Bio-based polycarbonate
Ingress protection rating	IP55
Impact protection rating (charger)	IK10
Impact protection rating (payment terminal)	IK09
Impact protection rating (Energy meter window)	IK08
Protection	
Earth fault protection	RCCB Type A 30 mA + RDC-DD 6 mA
Overcurrent protection	40 A MCB 10 kA per IEC 60947-2 (Optional)
Welded contacts protection	Yes (shunt trip)
User interface and control	
User interface	LED strip status indicator MID energy meter display
Access control	ISO 15693, ISO 14443-A, ISO 14443-B, ISO15118-2 Plug & Charge
Payment terminal	Yes (Optional)
Connectivity	
Communication interface	Modbus TCP/IP, Modbus RTU
Network interface	Wi-Fi (IEEE 802.11a/b/g/n/ac), Ethernet (10/100 Mbps) LTE 4G
Protocol	OCPP 1.6J, upgradable to OCPP2.0.1
Remote monitoring	Yes
EV charging balancing	
Static and Dynamic load balancing	Yes, up to 16 EV chargers (32 charge points) in one cluster
Branch load balancing	Yes, up to 8 clusters (128 EV chargers/256 charge points)
Phase balancing	Yes
Communication interface with energy meter	Modbus RTU, Modbus TCP/IP
Energy metering	
MID	Yes

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 vehicle model.

²⁾ In the case of outdoor installation, top entry requires additional overhead cover.

³⁾ Topside entry is not available for the RCCB version.

⁴⁾ Derating applies at +40 °C.

Certifications and standards (not limited to)

Certifications and standards	
Conformity	IEC 61851-1
ISO15118-20 HW-ready	Yes for V2X applications
Plug and charge ISO15118-2	Yes
Charging mode	Mode 3 in accordance with EN/IEC 61851-1 AC charging
Electric vehicle charging infrastructure	IEC 63110-1:2022, IEC 63380-1, EN 17186, IEC 62196-1, IEC 60364-7-722
Electromagnetic compatibility	EN 61851-21-2, EN 61000-6-1, EN 61000-6-3, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12
Cybersecurity	IEC 62443

Product part numbers

Part number	Description
GMM2222BBCG00C03	Green Motion Duo Master 2xT2S MCB 40 A, 6 kA + RCCB Type A 30mA 4G ISO15118
GMM2222BBCH00C03	Green Motion Duo Master 2xT2S MCB 40 A, 6 kA + RCCB Type A 30mA 4G ISO15118 + POS
GMM2222BACG00C04	Green Motion Duo Node 2xT2S MCB 40 A, 6 kA + RCCB Type A 30mA ISO15118
GMM2222BBBH00C03	Green Motion Duo Master 2xT2S RCCB Type A 30mA 4G ISO15118 + POS
GMM2222BBBG00C03	Green Motion Duo Master 2xT2S RCCB Type A 30mA 4G ISO15118
GMM2222BABG00C04	Green Motion Duo Node 2xT2S RCCB Type A 30mA ISO15118

Accessories part numbers

Part number	Description
GMA03AF000000000	Wall-Mounted Cable Holder for Type 2 AC Charging Cables
GMA03AB000000000	Green Motion Duo Floor-mount Pedestal Single
GMA03AC000000000	Green Motion Duo Floor-mount Pedestal Dual Extension Kit
GMA03AO000000000	5 m Straight Type 2 AC Charging Cable, Black
GMA03AP000000000	7.5 m Straight Type 2 AC Charging Cable, Black
GMA03AQ000000000	5 m Coiled Type 2 AC Charging Cable, Black

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