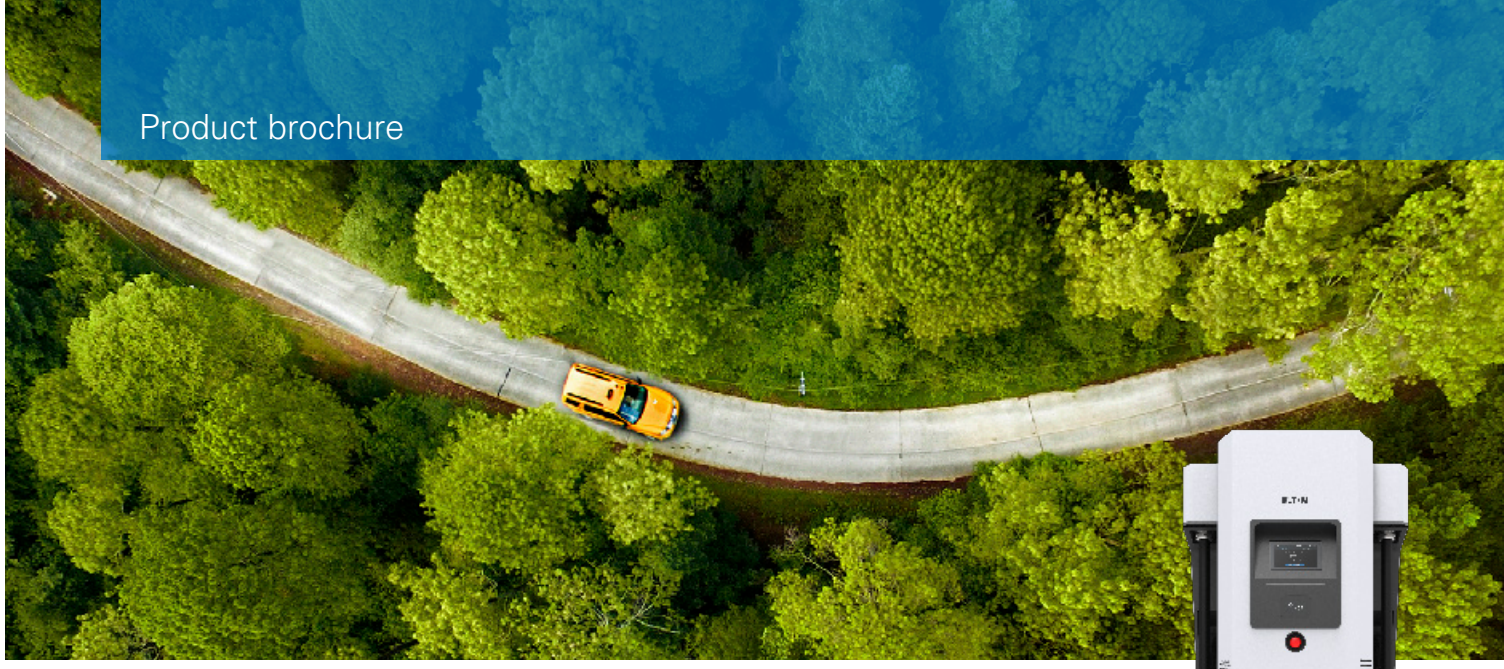
Product brochure



The new Eaton Green Motion 50–150 kW DC Fast Charger

Powering the electric vehicles of today and tomorrow

The new Eaton Green Motion 50–150 kW DC Fast Chargers combine electric vehicle charging hardware with Eaton digital power management capabilities and electrical infrastructure products and services. With hardware and software solutions for Electric Vehicle Charging Infrastructure (EVCI), Green Motion 50-150 kW DC Fast Chargers are part of an EVCI strategy to power the electric vehicles of today and tomorrow.

Eaton is committed to improve the quality of life and the environment through the use of power management technologies and services. With advances in electric transportation, Eaton can leverage existing expertise in adjacent technologies and services to help power EVCI for personal, business and industrial use.

Features and benefits

- **Vehicle compatibility** provides charging for current and future light and medium-duty electric vehicles
- **300 amp, passively cooled charging cables** on higher power models ensures more peak power delivered to vehicles with greater reliability and reduced capital cost
- **ISO 15118 plug-and-charge** allows for easy charging and eliminates the need for apps or credit cards at the time of charge for payment (future support)
- **Ethernet or 4G cellular communication** provide the ability to perform firmware updates remotely, which eliminates the need for a planned visit to a remote site to perform an update, ultimately saving time and money
- **OCPP v1.6J support** provides compatibility and integration with various charging network management and fleet software management solutions

More power means you can get on the road quicker

Unlike many competitive solutions that use 200 A power cables, the Green Motion 50–150 kW DC Fast Chargers provide more power for 400 Vdc battery pack vehicles, such as the Ford Mustang Mach-E and Ford F-150 Lightning. Each Green Motion DC Fast Charger rated at 100 kW, 125 kW and 150 kW are equipped with 300 A CCS1 cables, allowing for higher rates of charge for most battery electric vehicles (BEVs) produced between 2010–2022 that use lower voltage, 400 V class battery packs. By using passively-cooled cables, the Green Motion 50–150 kW DC Fast Chargers do not require liquid cooling components within the charger or the charging cables, which reduces complexity, cost and maintenance while improving reliability.

Powering Business Worldwide

Product highlights

- **Save space** with an all-in-one design (no separate power module cabinets), with models designed for private fleet and public charging applications*
- **Enjoy fast charging** with high current 300 Amp cables in 100–150 kW models that allow for faster real-world charge times of many of todays vehicles using ~400 Vdc battery architectures
  – ~400 Vdc architecture vehicles include Ford Mustang Mach-E and F-150 lightning, Audi E-tron (SUV), Nissan Leaf, Rivian R1T/R1S, and many others
- **Designed for compatibility** with a variety of charge management platforms through the use of OCPP 1.6J+ as well as future Eaton charge network management software (expected 2023)
- **Supports simultaneous charging** of two connected vehicles and OCPP-enabled load management to reduce installation cost per port while powering more vehicles
- **UL-listed and tested** for electrical safety and includes ground fault protection**

*Public charging models will be released after launch of private fleet charging models
**UL certification will be obtained before launch

Eaton Green Motion 50–150 kW DC Fast Charger

The perfect fit for a wide-range of fast-charging applications, including:

Fleets that support customers to perform their core business

Delivery trucks or customer-owned fleets

Fleet operations for business owners

MD/HD trucks may require charging beyond 20 kW to support fleets that may have short dwell times to charge charge overnight and may have large battery capacities, including:

- Package delivery
- Regional trucking
- Rental car agencies
- Buses
- Municipality and government fleet vehicles

Charging stations

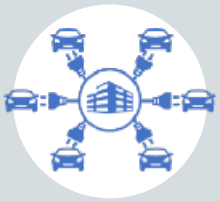
DC fast charging for personal, business and industrial use along a travelers' route, including:

- Rest areas
- Interstate dining and gas areas
- Truck stops

Site-level deployment

This includes:

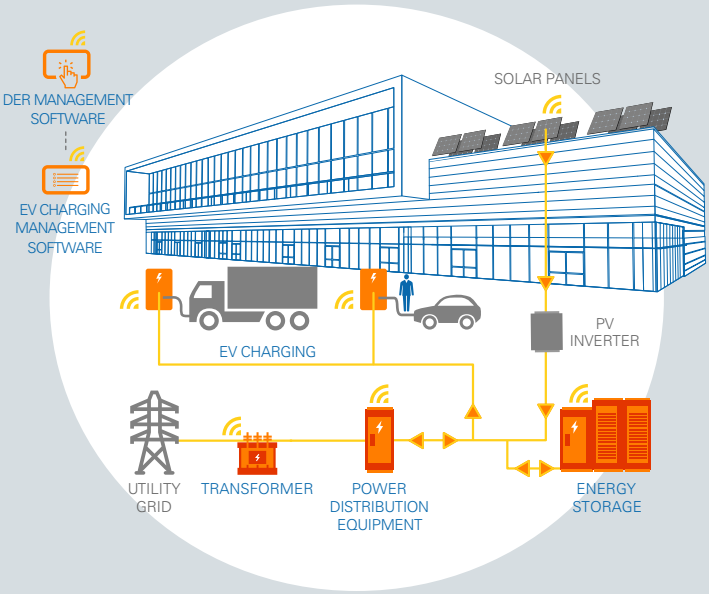
- Major shopping centers, outlet malls, and retail locations
- Stadiums and event arenas
- Race tracks



Parking as a business

- DC fast charging for temporary parking in cities and parking in cities and parking decks, where people may spend 1–3 hours at their destination and need to charge their vehicle

Eaton's comprehensive EV charging infrastructure offerings will include, equipment, software and engineering services solutions to meet EV charging project requirements.



As the demand for EV charging rapidly increases, Eaton can satisfy electric vehicle charging infrastructure needs of today and tomorrow.

EATON GREEN MOTION 50–150 kW DC FAST CHARGER SPECIFICATIONS

Description	
5PX G2 extended battery module options	
Available max kW rating (in kW)	50, 75, 100, 125, 150
150 kW model max power rating	120 kW @ 400 Vdc 150 kW @ 500–1000 Vdc
Cable cooling type	Air-cooled (passively cooled)
Plug/nozzle options (2x CCS1, or CCS1 and CHAdeMO)	CCS1 (125 A, 200 A or 300 A) CHAdeMO (125 A)
Number of ports per charger	1 or 2 per charger
Elevation range	<2000 m (<6500 feet)
Temperature range	-35 to 55°C (-31 to 131°F)
Input voltage (AC)	480 Vac Delta (3-Phase)
DC output voltage range	200–1000 Vdc
Cable management	Hook for cable management
User access	RFID, ISO 15118 "Plug and Charge" (future)
Display	7" touch screen
Network Support	3G/4G cellular, Ethernet
EVSE communication protocol	OCPP 1.6J (supports future upgrades to OCPP 2.x)
Enclosure rating for environment	IP54 for environment, enclosure designed to IK10 for impact
Safety certifications	UL 2202, UL 2231 CSA C22.2 No. 107.1, No 281.1-12, No 281.2-12
FCC rating	CFR 47 Part 15 Subpart B, Class A
Size (height x width x depth)	1685 x 530 x 750 mm 66.4" x 20.9" x 29.6"
Surge protection	ANSI C62.41 Cat B3/C1
Standard warranty	1 year

Due to the continuing product improvement programs, specifications are subject to change without notice.

EATON GREEN MOTION 50–150 kW DC FAST CHARGERS

Description	Catalog number	Maximum power rating (kW)
Private fleet charging — single cable models		
DC50 CCS1 125A	GMDC50-CCS	50
DC150 CCS1 300A	GMDC150-CCS	150
Private fleet charging — dual cable models		
DC50 CCS1x2 125A	GMDC50-CCSX2	50
DC75 CCS1x2 200A	GMDC75-CCSX2	75
DC100 CCS1x2 300A	GMDC100-CCSX2	100
DC125 CCS1x2 300A	GMDC125-CCSX2	125
DC150 CCS1x2 300A	GMDC150-CCSX2	150
Public charging — dual cable models		
DC50 CCS1x2 125A w/credit card reader	GMDC50-CCSX2-P	50
DC50 CCS1 125A and CHAdeMO 125A w/credit card reader	GMDC50-CCSCDM-P	50
DC75 CCS1x2 200A w/credit card reader	GMDC75-CCSX2-P	75
DC75 CCS1 200A and CHAdeMO 125A w/credit card reader	GMDC75-CCSCDM-P	75
DC100 CCS1x2 300A w/credit card reader	GMDC100-CCSX2-P	100
DC100 CCS1 300A and CHAdeMO 125A w/ credit card reader	GMDC100-CCSCDM-P	100
DC125 CCS1x2 300A w/credit card reader	GMDC125-CCSX2-P	125
DC125 CCS1 300A and CHAdeMO 125A w/credit card reader	GMDC125-CCSCDM-P	125
DC150 CCS1x2 300A w/credit card reader	GMDC150-CCSX2-P	150
DC150 CCS1 300A and CHAdeMO 125A w/credit card reader	GMDC150-CCSCDM-P	150

Note: Private charging models anticipated Q4 2022, public charging models available 2023

For more information, visit **Eaton.com/EVCI**

Follow us on social media to get the latest product and support information.

Powering Business Worldwide

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