

AC Level 2 electric vehicle charging station

The most robust, flexible offering of EVSE on the market



Overview

As the number of electric vehicles (EVs) on the road grows, electric vehicle supply equipment (EVSE) is in high demand among EV drivers. Electric vehicle owners require a robust network of charging infrastructure to increase their travel radius and reduce range anxiety. Public charging infrastructure allows EV drivers to charge their vehicles while on the go, and allows businesses to increase their visibility and foot traffic.

Eaton's AC Level 2 electric vehicle charging station is the ultimate electric vehicle charging solution for commercial and fleet applications, street-side parking, parking garages and parking lots. Available in 30A, 48A and 70A configurations, the Level 2 charging station enables fast and convenient electric vehicle charging, with the ability to supply a vehicle's on-board charger with electricity to charge the vehicle's battery in as little as 4 hours ¹. The station has a NEMA[®] 3R rated aluminum enclosure with a powder-coat paint and metallic silver finish for durability and long life, suitable for both indoor and outdoor use.

Flexibility and upgradeability

Whether you have a fleet of electric vehicles or want to provide a place to plug in away from home, Eaton has an electric vehicle charging station targeted to meet your commercial needs.

Available in both wallmounted and freestanding pedestal configurations, Eaton's AC Level 2 charging stations are designed with the growing market in mind. Each charging station has a removable device panel and standard interior layout that enables on-site upgradeability as your application needs change. Charging stations can be easily upgraded to provide station owners with access control, payment options, data acquisition options and networking to increase both ease of ownership and ease of use.

¹ Charge time is dependent on the vehicle's battery size and on-board charger rate.



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User safety

Eaton's AC Level 2 charging station uses the standard SAE J1772™ connector to ensure compatibility with electric vehicles on the road today. When the driver connects the J1772 connector to the vehicle, the charging station confirms that it is an electric vehicle by "waking it up" and communicating through one of the pins in the connector. Until the connection between the vehicle and the EVSE is confirmed, the five pins on the connector have no AC power. The EVSE also has integral ground fault monitoring capabilities with an automatic reset function to provide protection from potential power outages. Eaton charging stations have been tested to ensure compliance with all applicable UL® and CSA® safety standards for EVSE.



Customized management

Eaton's Level 2 charging stations can be integrated into a building's existing energy management system via standard Modbus® RTU, which enables the station owner to receive usage statistics and manage deployment of charging stations remotely. Refer to Communications Guide PA191003EN for more details.



Payment options and access control

Eaton has thoughtfully selected a wide range of access control and payment options to support a successful deployment of charging stations. These options can be factory-installed on the charging station, or field-upgraded at a later date. Access control and payment options include but are not limited to:

- Outdoor-rated credit card swipe
- Locally managed secure access RFID



Installation

Installation of the Level 2 EVSE can be performed easily by any qualified electrician. An electrician can also verify whether the size of the branch circuit is correct per NFPA® 70 and NEC® 625.14 (USA) and CEC Part 1, Section 86 (Canada) standards. Eaton manufactures all products that may be needed to support an electrical system upgrade if it is required for installation. Eaton's Engineering Services and Systems (EESS) team of electrical engineers is available nationwide and can be augmented by Eaton's network of national, local and specialty certified electrical contractors.

Eaton's Certified Contractor Network is a national network of highly qualified electrical contractors who work with Eaton to provide personalized, professional service. These contractors are given the best training and certification in the EV marketplace. They learn specific technologies involved in EVSE installation, products and services to ensure safety and quality, from the charging stations themselves to becoming ChargePoint-certified.

For more information, visit www.eaton.com/plugin, call 1-855-ETN-EVSE (1-855-386-3873), or call your local Eaton sales office.

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Printed in USA
Publication No. PA0EV00001E / Z14481
December 2013

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For more information about Eaton's electric vehicle solutions, scan this QR Code.

