LEVITON®

evr-green™ Level 2 Fleet
Network Charging Stations

For Fleet and Light Commercial Applications

Leviton Evr-Green™ Level 2 Fleet Charging Stations offer municipalities, corporations, and utilities, high-reliability, plug-in electric vehicle charging for fleets and light commercial environments. The easy-to-use stations integrate aesthetics and ergonomics with sturdy construction—ideal for fleet and light commercial applications.

The Evr-Green Level 2 Fleet charging station is a 7.2 kW single output station designed for the North American marketplace. The station delivers Level 2 (208/240 V @ 30 A) charging and is compatible with plug-in electric vehicles that comply with the SAE J1772™ plug-in electric vehicle charging standard. The station's small size and flexible interface for utility Automatic Meter Infrastructure (AMI) make it an ideal solution for fleet managers.
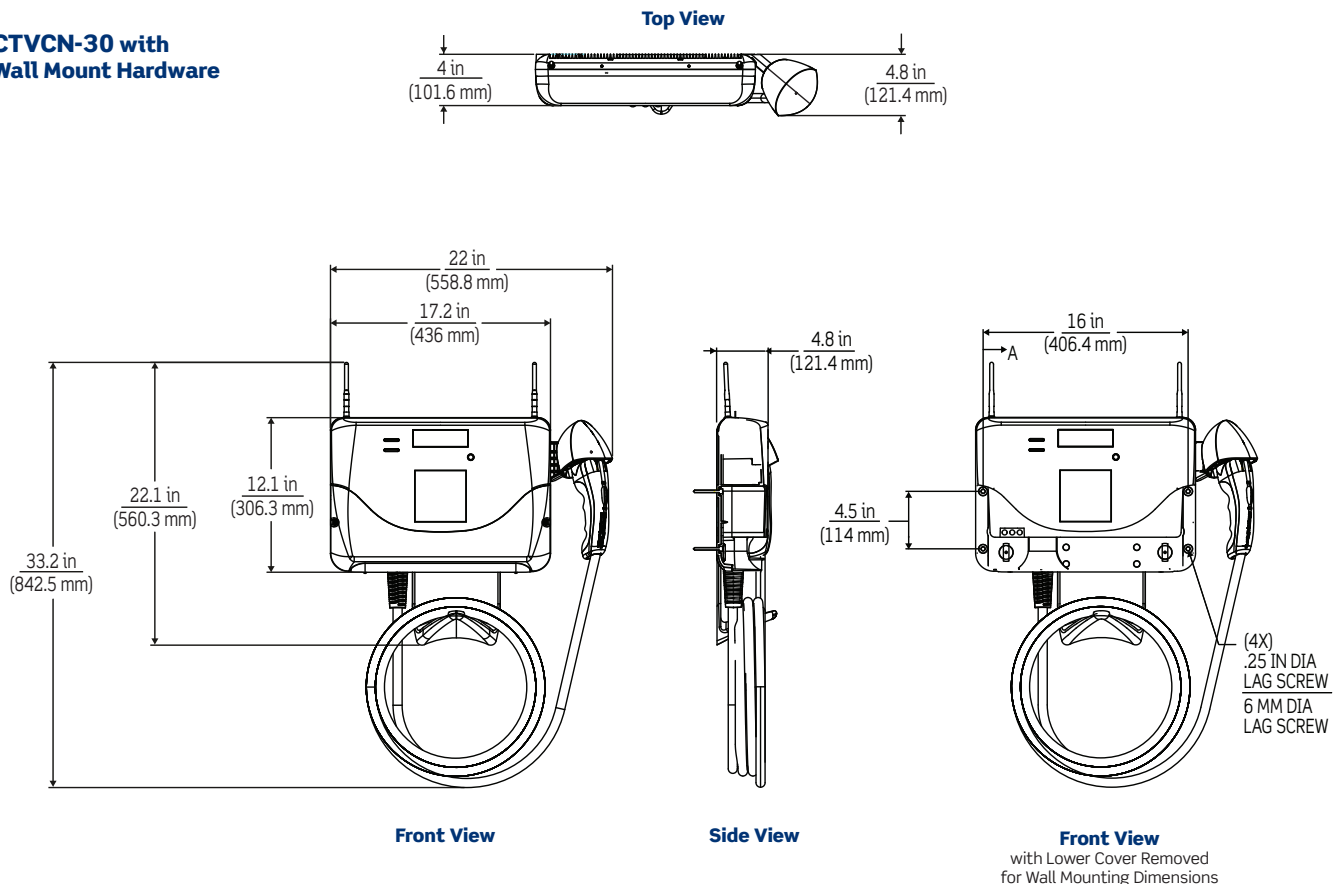
To eliminate energy theft and to enhance safety, drivers access and energize the station using a ChargePass™ card. The station's highly visible display guides drivers with instructive messages and can be used to display custom advertisement for drivers.

Made in USA

Features

- **ChargePoint® Network Enabled -** Includes 24/7 driver assistance, station location, station availability, trip mapping, driver billing, and driver notification services. Compatible with remote management, billing, maintenance and other on-demand software applications.

- **Smart Card Reader -** Integrated standards-based RFID reader that accepts ChargePass cards. Provides optional driver billing and custom access control, preventing electricity theft and enhancing safety.

- **Intelligent Power Control -** Algorithms ensure power is delivered only when a driver is authorized and the EV cord is properly inserted.

- **Vacuum Florescent Display with Multiple Language Support -** Bright, easy-to-read display used for instructive, advertisement and greeting messages in many languages.

- **Over-the-Air Station Upgrade -** Upgrade station firmware remotely over-the-air to keep charging station current with future and evolving EV charging needs.

- **Utility Grade Energy Meter -** Integrated power metering circuitry provides accurate bi-directional energy measurement.

- **Mounting -** The Evr-Green Fleet station includes wall mounting hardware.

- **Integrated Fault Detection -**
  - Ground Fault Detection: circuitry with auto retry and driver notification.
  - Over-Current Detection: Disconnects power to prevent nuisance breaker trips at service panel. Unit will auto-retry and notify the driver.
  - Plug-Out Detection: The station's algorithm disengages power and notifiest the driver when a plug is removed.
  - Charging Complete Detection: The station's algorithm detects completion of EV charge and notifies the driver.

- **Remote Diagnostics and Control -** Real-time remote alarm monitoring and control minimizes the need for on-site maintenance.

- **Network Interface -** Wireless mesh and cellular network interfaces allow seamless integration with back office business systems or utility Advanced Metering Infrastructures (AMIs).

- **Smart Grid Compatible -** Utility grade meter and smart-grid interfaces enable demand response and Time-Of-Use (TOU) pricing.

Dimensions

CTVCN-30 with Wall Mount Hardware

Top View

4 in (101.6 mm)
4.8 in (121.4 mm)

22 in (558.8 mm)
17.2 in (436 mm)
22.1 in (560.3 mm)
12.1 in (306.3 mm)
33.2 in (842.5 mm)

Front View

4.8 in (121.4 mm)

Side View

16 in (406.4 mm)
4.5 in (114 mm)
A

(4X) .25 IN DIA LAG SCREW
6 MM DIA LAG SCREW

Front View
with Lower Cover Removed for Wall Mounting Dimensions

Station Specifications

Electrical Input	
Input Power	7.2 kW
Input Voltage	208/240 VAC
Input Current	30 A
Input Power Connections	Line 1, Line 2, Earth
Recommended Service Panel Breaker	40 A double pole breaker (non-GFCI type) on dedicated circuit
Standby Power	5 W typical
Electrical Output	
Output Charging Power	7.2 kW
Output Voltage	208/240 VAC
Output Current	30 A
Output Charging Connector	SAE J1772™ EV Connector on 18' (5.48 m) cable
Functional Interfaces	
RFID Card Reader	ISO 15693, 14443
Ground Fault Detection	20 mA CCID with auto retry (15 minute delay, 3 tries)
Plug-Out Detection	Power terminated per SAE J1772™ specification
Power Measurement	2% @ 15 minute intervals
Local Area Network	2.4 GHz 802.15.4 dynamic mesh network
Wide Area Network	Commercial CDMA or GPRS cellular data network. GPRS only in Canada.
Safety and Operational Ratings	
Safety Compliance	UL Listed and cUL certified for Canada; Complies with UL 2594, UL 2231-1, UL 2231-2, UL 1998, UL991, NFPA 70, NEC Article 625
Surge Protection	6 kV @ 3,000. In geographic areas subject to frequent thunderstorms, supplemental surge protection is recommended.
EMC Compliance	FCC Part 15 Class A
Operating Temperature	-22°F to 122°F (-30°C to +50°C)
Operating Humidity	95% non-condensing
Enclosure	NEMA 3R per NEMA 250-1997
Terminal Block Temperature Rating	100°C (212°F)
Maximum Charging Stations per 802.15.4 Radio Group	24, including gateway. Each station must be within 150 feet "line-of-sight" of at least one other station.

evr-green™ Level 2 Fleet

CTVCN-30

Ordering Information

Level 2 Fleet Charging Station	
Each installation requires at least one Gateway Head to communicate with the ChargePoint network.	
Cat No	**Description**
CTVGN-S30	Level 2 Fleet Wall Mount Gateway Charging Station. Includes GPRS modem, ChargePass RFID reader, and 30A J1772 Connector with 18ft cable and holster. GPRS modem only for use in the United States.
CTVCN-S30	Level 2 Fleet Wall Mount Gateway Charging Station. Includes CDMA modem, ChargePass RFID reader, and 30A J1772 Connector with 18ft cable and holster. CDMA modem only for use in the United States.
CTVGN-CS3	Level 2 Fleet Wall Mount Gateway Charging Station. Includes GPRS modem (Canada only), ChargePass RFID reader, and 30A J1772 Connector with 18ft cable and holster. GPRS modem only for use in Canada.
CTVDN-S30	Level 2 Fleet Wall Mount Local Head Charging Station. Includes Local Area Network communication, ChargePass RFID reader, and 30A J1772 Connector with 18ft cable and holster. This unit can only be installed after a Gateway Head Unit has been installed within line-of-sight.
CTVUN-S30	Level 2 Fleet Wall Mount Gateway Charging Station. Includes CDMA modem and 30A J1772 Connector with 18ft cable and holster. This unit does not include an RFID reader. CDMA modem only for use in the United States.
Charging Station Software	
Fleet Charging Stations do not include payment collection. These stations only include one full year of the Basic ChargePoint Network service. The service includes online software which provides station owners with real-time station monitoring and station reporting.	

ISO 9001 REGISTERED Quality Manufacturer

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