

evr-green™ Level 1 & Level 2 Network Charging Stations

For Public Applications



Leviton's Evr-Green™ Public Use Charging Stations offer municipalities, corporations, fleets, and utilities, high-reliability, plug-in electric vehicle charging that drivers prefer. The easy-to-use stations provide multiple power options, integrating aesthetics and ergonomics with sturdy construction—ideal for commercial and outdoor public applications.

The Evr-Green™ Level 1 & Level 2 charging stations are dual output stations designed for the North American marketplace.

- The 7.2 kW output delivers Level 2 (208/240 V @ 30A) charging via a standard SAE J1772™ connector and fixed 18-foot cable.
- The 2 kW output delivers Level 1 (120 V @ 16 A) charging via a weather-resistant NEMA 5-20 receptacle protected behind a locking door.
- Both outputs can deliver energy simultaneously.

To eliminate energy theft and to enhance safety, drivers access and energize the station with a ChargePass™ card or contactless credit card. The station's highly visible display guides drivers with instructive messages and can be used to display custom advertisement to drivers.



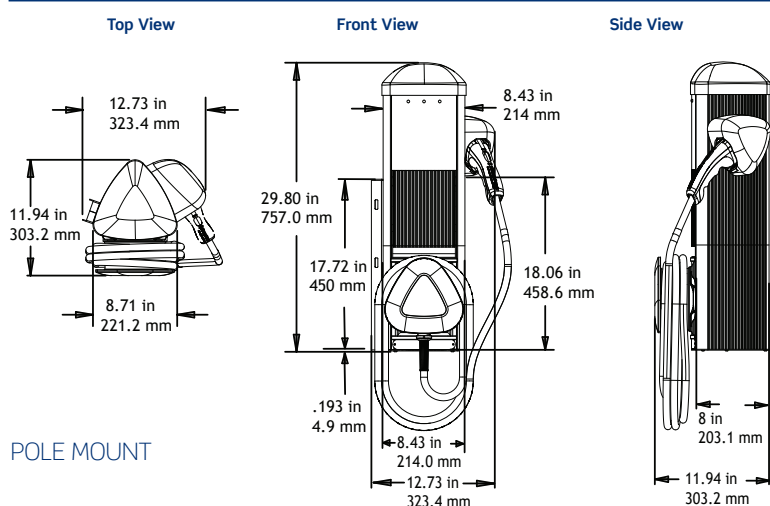
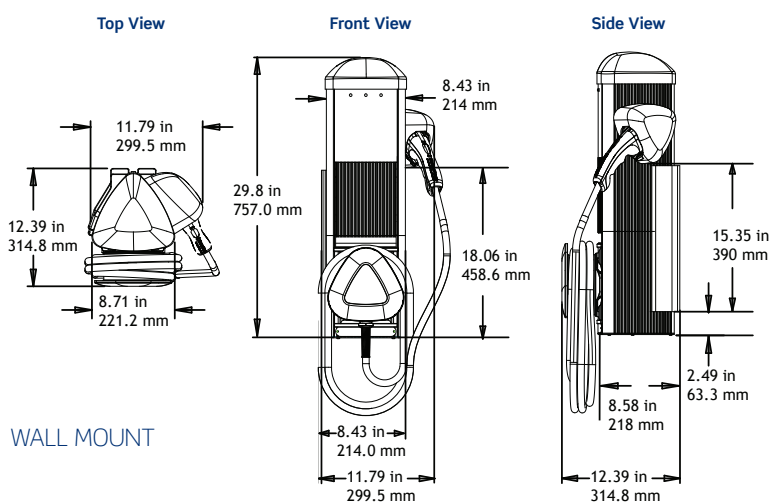
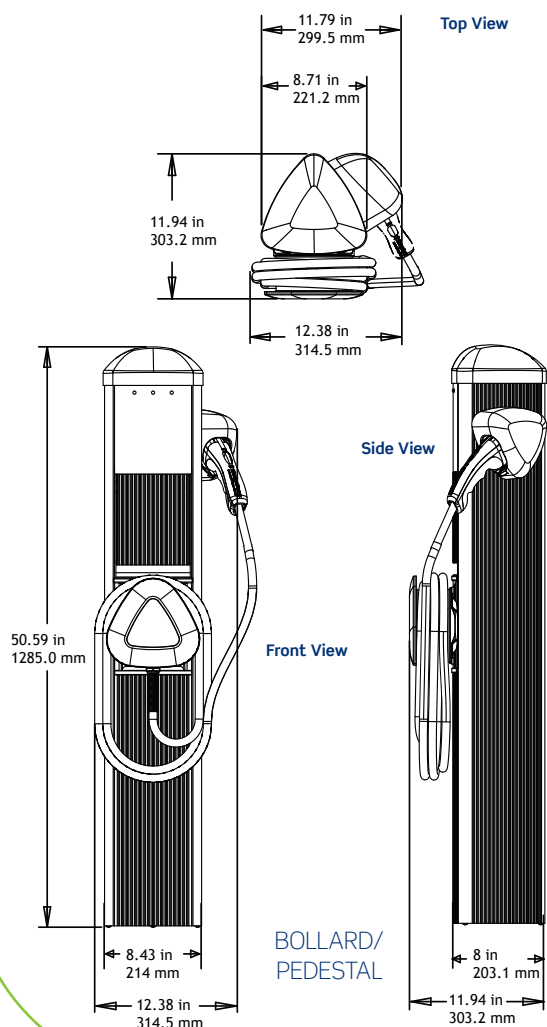
Network by
ChargeP*Int®

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 or contactless credit 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.
- **Locking Door** - Protects power insertion point and retains the EV charging cord to prevent theft during charging.
- **Vacuum Florescent Display with Multiple Language Support** - Bright, easy-to-read display for driver instructions, and advertisements 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.
- **Remote Diagnostics and Control** - Real-time remote alarm monitoring and control minimizes the need for on-site maintenance.
- **Integrated Fault Detections** -
 - 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 notifies the driver when a plug is removed.
 - Charging Complete Detection: The station's algorithm detects completion of EV charge and notifies the driver.
- **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.
- **Three Mounting Methods** - Choose from Bollard/Pedestal, Pole or Wall mounting systems.
- **Locking Holster** - Ideal for publicly accessible environments. SAE J1772 connector electromechanically locks in to the holster. Station releases the connector when a driver is authorized to use it. The locking holster keeps the J1772 connector in the holster and off the pavement between charging sessions.

Dimensions



Specifications

	Level 1	Level 2
Electrical Input		
Input Power	2.0 kW	7.2 kW
Input Voltage	120 VAC	208/240 VAC
Input Current	16 A	30 A
Input Power Connections	Line, Neutral, Earth	Line 1, Line 2, Earth
Recommended Service Panel Breaker	20 A single pole breaker (non-GFCI type) on dedicated circuit	40 A double pole breaker (non-GFCI type) on dedicated circuit
Standby Power	5 W typical	
Electrical Output		
Output Charging Power	2.0 kW	7.2 kW
Output Voltage	120 VAC	208/240 VAC
Output Current	16 A	30 A
Output Charging Connector	Weather-Resistant NEMA 5-20 receptacle	SAE J1772™ EV connector on 18' (5.48 m) cable
Functional Interfaces		
Card Reader	ISO 15693, 14443	
Ground Fault Detection	5 mA CCID with auto retry (15 minute delay, 3 tries)	20 mA CCID with auto retry (15 minute delay, 3 tries)
Plug-Out Detection	Programmable arm and trip current thresholds	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 for USA and cUL certified for Canada; Complies with UL 2594, UL 2231-1, UL 2231-2, UL 1998, UL 991, NEC Article 625	
Surge Protection	6 kV @ 3,000 A. In geographic areas subject to frequent thunderstorms, supplemental surge protection is recommended	
EMI 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	212° F (100°C)	
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 1 & Level 2 Charging Stations

BOLLARD



POLE MOUNT



WALL MOUNT



EVR-Green Level 1 & Level 2 Charging Stations are comprised of three sections:

Mounting Mechanism • Cable Assembly • Head Unit

To order a Level 1 & Level 2 Charging Station, select a mounting mechanism, cable assembly, and head unit. A complete system must contain items from each system section.

Mounting Mechanism

Select a Mounting Mechanism for your station. Pole and Wall Mounted stations require two catalogue numbers for a complete mounting mechanism

Bollard / Pedestal Mounting

Cat No	Description
CTMBR	Bollard Mounting System for Level 1 & Level 2 Charging Stations

Pole Mounting

Cat No	Description
CTMPR	Pole Mounting Bracket for Level 1 & Level 2 Charging Stations
CTMER	External Shell for Pole or Wall Mounting for Level 1 & Level 2 Charging Stations

Wall Mounting

Cat No	Description
CTMWR	Wall Mounting Bracket for Level 1 & Level 2 Charging Stations
CTMER	External Shell for Pole or Wall Mounting for Level 1 & Level 2 Charging Stations

Cable Assembly

All Public Use Stations require a cable assembly. The catalogue number and description are below.

Cat No	Description
CTCLX-30	30A Locked Cable Assembly for Level 1 & Level 2 Charging Stations. Includes 18ft cable, J1772 connector, and connector holster.

Head Unit

Select a Head Unit for your station. Each installation requires at least one gateway unit to communicate with the ChargePoint Network

CTHGR-S	GPRS Gateway Head Unit for Level 1 & Level 2 Charging Stations. Includes GPRS, Contactless Credit Card RFID reader. This GPRS modem only for use in the United States.
CTHCR-S	CDMA Gateway Head Unit for Level 1 & Level 2 Charging Stations. Includes CDMA, Contactless Credit Card RFID reader. CDMA modem only for use in the United States.
CTHGR-CS	GPRS Gateway Head Unit for Level 1 & Level 2 Charging Stations. Includes GPRS, Contactless Credit Card RFID reader. This GPRS modem only for use in Canada.
CTHDR-S	Local Head Unit for Level 1 and Level 2 Charging Stations. Includes Local Area Network communication and Contactless Credit Card reader. This unit can only be installed after a Gateway Head Unit has been installed within line-of-sight.

Charging Station Software

All Public Use Charging Stations include one full year of ChargePoint Network Services including payment collection. The service includes online software which provides station owners with real-time station monitoring, station reporting, and billing software. To use the ChargePoint Network Services, station owners must complete ChargePoint's Master Service & Subscription Agreement.

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