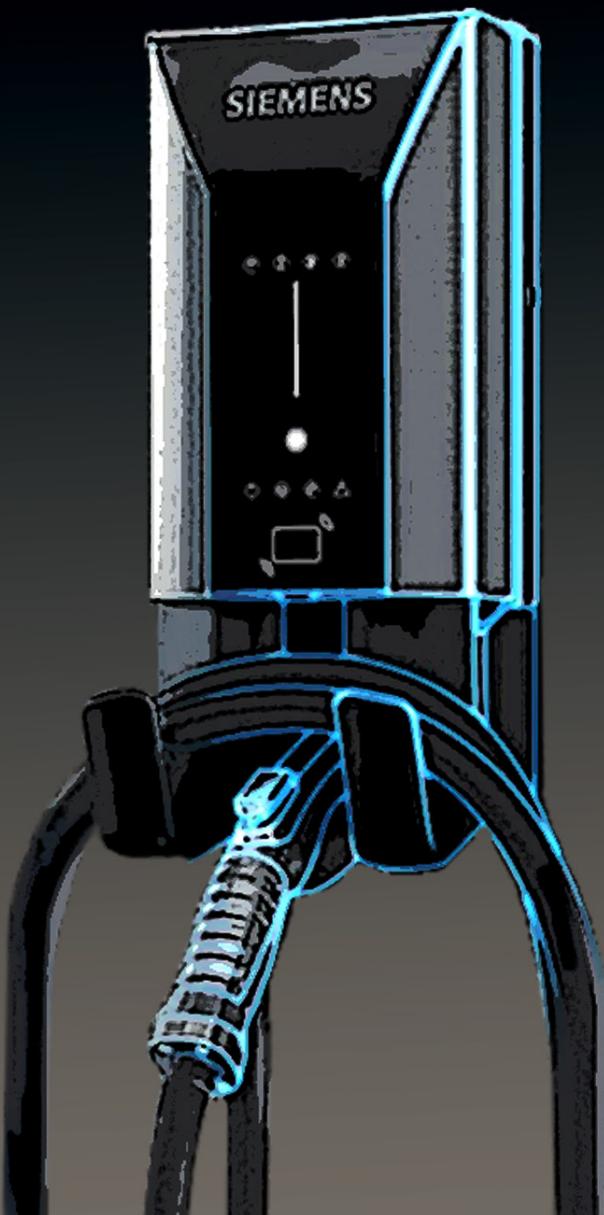


# EV CHARGER GUIDE



**E.B. Horsman & Son**  
*The Electrical Distributor of Choice!*





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## Federal & Provincial Rebate Programs:

EV charger rebate program for apartments and workplaces

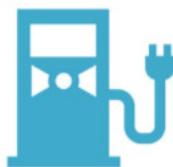
B.C.'s EV charger rebate program

Alberta Incentive Programs

# Electric Cars & EV Chargers Info

## Types of Charging Stations:

### Level 1 - 120V - Slow Charge



- Where you'll find a Level 1 charger: Home
- Installation cost: \$0
- Estimated charge time: 8 to 24 hours\*
- Who it's for: the public
- How much power does it use? As much as a space heater
- How it connects: Plug into a standard outlet right in your home that's dedicated for EV charging
- ***Not available through distributor; usually provided with purchase of an EV Vehicle.***

### Level 2 - 208 to 240V - AC Fast Charge



- Where you'll find a Level 2 charger: Home or Work
- Installation cost: \$500 to \$2,500
- Estimated charge time: 4 - 10 hours depending on the vehicle
- Who it's for: the public or businesses wanting to provide charging for their employees
- How much power does it use? As much as a clothes dryer
- How it connects: you need to contact an electrician to install
- ***Stocked by E.B. Horsman & Son***

### Level 3 - 480V - DC Fast Charging



- Where you'll find a Level 3 charger: Businesses
- Installation cost: \$50,000 to \$100,000
- Estimated charge time: 30 to 45 minutes or less\*
- Who it's for: the public
- These pay-per-use charging stations are intended for public use. Just like a gas station, but for charging an electric vehicle.
- ***Available by request***

## General questions to help qualify your customer's application:

- Is the application Commercial, Public or Residential?
- If Commercial/Public: Networked or Non-Networked? Networked units offer Payment Processing, Online Monitoring and Energy Metering. They require a subscription to an EV network.
- If Residential: What amperage? (30A is most popular as it offers an optimum charge for most vehicles but this varies depending on the EV model and short-term vs. future needs)
- Single Head or Dual Head?
- Mounting Type: Bollard (Free Standing) or Wall Mount?



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**Residential Solutions**



NEWS

# VersiCharge AC Series | Gen3

LEVEL 2 | 40A, 48A

RESIDENTIAL

## Powerful, versatile, cost-efficient

Siemens VersiCharge chargers have stood for superior quality, ruggedness, and proven technology for more than a decade and have reliably provided millions of charges to EV (electric vehicle) drivers worldwide. The new third generation VersiCharge AC charger is continuing this tradition with numerous groundbreaking enhancements, a fresh and appealing design, and up to 11.5 kW of AC (alternating current) charging power. The rugged and slender VersiCharge AC charger is suitable for both indoor and outdoor use and can either be mounted on a wall or supplementary post.

## The ideal solution for any application

Uniquely tailored for both commercial and home charging, VersiCharge AC charger comes with an easy-to-use mobile application and can charge any standard EV with just a tap of a button from your phone. VersiCharge AC home charger is energy star certified, and offers you cutting edge technology with the most affordable pricing.

### Basic Residential

Designed for single family homes to provide charging to the owner

### Smart Residential

Designed for the single family homes, with wi-fi or ether connectivity, when coupled with Siemens free app allows the owner to control and monitor the charger.



Model number			HW ready for ISO 15118	Wi-Fi and Ethernet	Modbus RTU / TCP	RFID identification	Revenue grade metering	LTE WCDMA
Residential versions	Basic	40 A	8EM1312-4AF10-0AA3	-	-	-	-	-
		48 A	8EM1312-5AF10-0AA3					
	High End	40 A	8EM1312-4CF18-0FA3	✓	✓	-	-	-
		48 A	8EM1312-5CF18-0FA3				✓	

# SIEMENS

## VersiCharge AC Series - Technical Data

Features and functions	
Charging mode	Level 2
Vehicle connection	J1772 plug with 20 ft cable, 40/48 A / integrated cable management
AC power output	Single phase up to 9.6 kW (40 A) or 11.5 kW (48 A)
Mounting options	Wall and post mounting, see accessories
Touch Button	Time delay, return to max, power level, reset ground fault
Charging status LEDs	Power, Cold start, time delay, charging state, reduced power level, authentication
Communication status LEDs	Connected / not connected during operation, signal strength during commissioning
Communication	
Interfaces	Designed for the single family homes, with wi-fi or ether connectivity, when coupled with Siemens free app allows the owner to control and monitor the charger.
Electrical Design	
Power supply voltage	Single phase: 208V / 240 V AC, 60 Hz
Rated current settings (A)	12, 16, 24, 32, 40, 48
Cross wire section	Single phase: 8 Awg / 6 Awg (75C rated wire)`
Network type	Single phase / split phase
Ground fault protection	20 mA
DC residual current monitoring	Not applicable
Over voltage protection	Under voltage: 167 V (min. 80 V) / over voltage: 267 V (max. 275 V)
Over current protection	Current +10% above configured threshold, min. +2A, 5 seconds
Operating altitude	9,840 ft
General design	
Environmental rating	Indoor and Outdoor, NEMA 4, IK 10
Dimensions (HxWxD)	40.9 x 18.1 x 9.6 (cm) / 6.10 x 7.09 x 3.78 (in)
Weight	7.7 (kg) / 17 lbs
Ambient conditions	Operating temperature: -31°F - +122°F, Storage Temp.: -40°F to +140°F, 98% non condensing
Colors	Silver Metallic (Pantone 10077), Black holster
Certificates and standards	
cUL listed	according to UL 1998, UL 991, UL2594/CSA C22.2 No.280/NMX-J-677-ANCE, UL 2231-1/CSA C22.2 No.281.1/NMX-J-668-1, UL 2231-2/CSA C22.2 No.281.2/NMX-J-668/2-ANCE, UL 2251/CSA C22.2 No.282/NMX-J-678-ANCE
EMC	FCC Part 15.247, FCC Part 15B, FCC Part 15CMax



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# EVR-Green® Residential Line

LEVEL 2 | 30A, 40A

RESIDENTIAL



✓ Qualifies for BC Rebate Programs\*

Cat. No.	Description
EVR30-B1C	Evr-Green® Charging Station, 30 A, 208-240 VAC, 7.2 kW output, 18' charging cable, hardwired
EVR40-B2C	Evr-Green® Charging Station, 40 A, 208-240 VAC, 9.6 kW output, 25' charging cable, hardwired

- Compatible with all Electric Vehicle Supply Equipment (EVSE) Codes, Standards and Recommended Practices, including SAE J1772™, NEC 625, UL 2231 and UL 2594
- Compact size and unique wiring compartment design provides a hassle-free installation
- Water-Resistant enclosure is rated NEMA Type 3R for indoor and outdoor use
- Thermoplastic, vandal-proof enclosure withstands the harshest environments
- “Auto-Reclosure” feature enables charging to restart following a minor fault, thereby reducing the chance of having an undercharged battery
- Ground monitor interrupter circuit for safety
- Integrated On/Off switch to minimize standby power
- Compatible with Evr-Green EVSE Pedestal System
- Includes mounting bracket
- New cable design prevents cord from freezing and cracking in extreme weather, as low as -40°F/-40°C

\* As of January 18<sup>th</sup>, 2021

Electric Vehicle Charging Stations	EVR30-B1C	EVR40-B2C
Electrical Specifications	Description	
Amerpage	30 A 60 Hz	40 A 60 Hz
Breaker	2 Pole, 40 A Breaker on Dedicated Circuit, Non-GFCI Type	2 Pole, 50 A Breaker on Dedicated Circuit, Non-GFCI Type
Voltage	240 VAC Single Phase and 208 VAC 3-Phase Y	
Charge Connector Cord	SAE J1772 Charge Connector	
Output Rating	7.2 kW (30 A @ 240 V) 6.2 kW (30 A @ 208 V)	9.6 kW (40 A @ 240 V) 8.3 kW (40 A @ 208 V)
Phantom Power	< 7.5 W	
Number of Phase / Wire	L1, L2 and Ground, Bottom Feed	
Short Circuit Current Rating	20 mA CCID per UL 2231	
Station Operating Temperature	-22°F to +122°F / -30°C to +50°C	-22°F to +122°F / -30°C to +50°C
Environmental Specifications		
Altitude	Up to 6,500 ft. (2,000 m)	
Charging Cable Operating Temperature	SAE J1772 Connector Cord : -40°F to +122°F ( -40°C to +50°C )	
Cooling	Natural Cooling	
Operating Humidity	<95% Relative Humidity, Non-Condensing	
Material Specifications		
Enclosure Cover Material	Plastic (PC+PBT)	
Enclosure Rating	NEMA Type 3R	
Status Indicator	Power Present, Charging, Fault	
Charge Connector Cord	UL Type EV	
Mechanical Specifications		
Charging Cable Length	18 Ft (5.5 m)	25 Ft (7.62 m)
Product Features		
Cover Locking Mechanism	Torx Screw to Prevent Unauthorized Access / No Padlock Option	
Standards & Certifications		
Certificates/Compliance	SAE J1772; UL 991; SAE J2953; NEC Article 625; UL 2594; CSA C22.2; No. 107.1; UL 2231-1; FCC; UL 2231-2; UL, cUL; UL 1998; RoHS	
Warranty		
Term	2-Year Limited Warranty	



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# VersiCharge Series | Gen2

LEVEL 2 | 30A - 40A

RESIDENTIAL

## Siemens VersiCharge

The Siemens VersiCharge line of Electric Vehicle Charging systems is the industry's most flexible and versatile offering. These Level 2 (30 A - 240 VAC) charging stations offer unparalleled usability, safety, energy management, and affordability.

The units come in models with or without wireless communication. In addition, each of the devices can be adjusted with an Amperage dial.

Part No.	Description
VC30GRYU	Siemens® Versicharge™ 30a Electric Vehicle Charger with Flexible Indoor-Outdoor and 20ft Cord
VCSG30GRYUW	Evr-Green e40 Charging Station, 208-240VAC, 9.6kW output, 25' charging cable, hardwired



### VersiCharge Features

- Level 2 (240 V) charging
- 30 A option with adjustability
- Easy to install n Push button user controls
- Visual status indication n User controlled charge delay
- Outdoor NEMA4 allows for plug in or hardwired installation and comes with a 20-foot charging cord.
- Require a 40A, 2-pole 208-240VAC

### VersiCharge SG VCSG30GRYUW

- Same features as VersiCharge plus:
- Built in Zigbee wireless communication
  - Comes with free phone app (iOS or Android) to track usage, alarms, do scheduled energy reduction and more.
  - Wi-Fi enabled with revenue accurate meter.

# SIEMENS

Essentials	VC30GRYU	VCSG30GRYUW
Amperage	30 Amps	
Input voltage	208 – 240VAC	
Cord length	20 ft	
Wall weight	14.5 lbs	
Dimensions	14.5" w x 16.0" h x 6.5" d	
Output power	1.8 kW to 7.2 kW	-
Enclosure	NEMA 4	
Plug in Installation	Yes (below or behind unit)	
Permanent Installation	Yes	
Electrical Design		
Circuit requirement	40 Amperes*	
Input power connections	Line1, Line 2, Earth Ground	
Recommended branch breaker	410 Ampere double pole (Siemens: Q240 plug in type, B240 bolt on type)	
Mechanical		
Connector	SAE J1772	
Safety and Operational		
Standards Compliance	UL, CSA, SAE J1772, NEC® 625	
EMC	FCC Part 15 Class B	
Operating temperature	-30°C to +50°C	
Storage temperature	-40°C to +60°C	
Operating humidity	Maximum 95% non-condensing	

## Wiring & Mounting Options

The Siemens VersiCharge devices can be wired using one of four options:



Hardwired via bottom fed conduit



Hardwired from behind



240 V Plug External



240 V Plug from behind  
(Plug is hidden)



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NEWS



Commercial Solutions



# Evr-Green® 4000

LEVEL 2 | NETWORKED

COMMERCIAL | PUBLIC CHARGING STATIONS

## Level 2 Networked Public Use Charging Stations

Evr-Green® 4000 Level 2 Public Use Charging Stations provide corporations, municipalities and utilities industry leading EV charging solutions. Integrating design and functionality with superior reliability and durability, the Evr-Green® charging stations are ideal for workplace, commercial, or outdoor public charging.

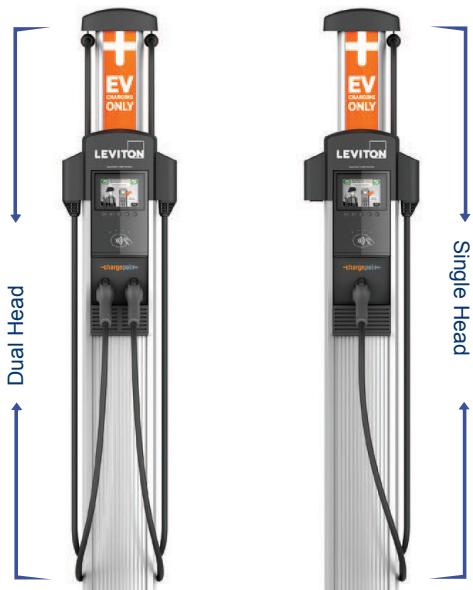
## Component Options

Description		Cat. No.
Head Unit	Single Head	CPHU1
	Dual Head	CPHU2
Mounting	Bollard Body	CPMBX
	Wall Mounting Body	CPMEX
Mount Cap	Bollard Cap	CPCAP-B
	Wall Mount Cap	CPCAP-W
Cable Management Assembly		CPCBX
Concrete Mounting Kit (for Bollard Mounting Versions)		CPCMKT

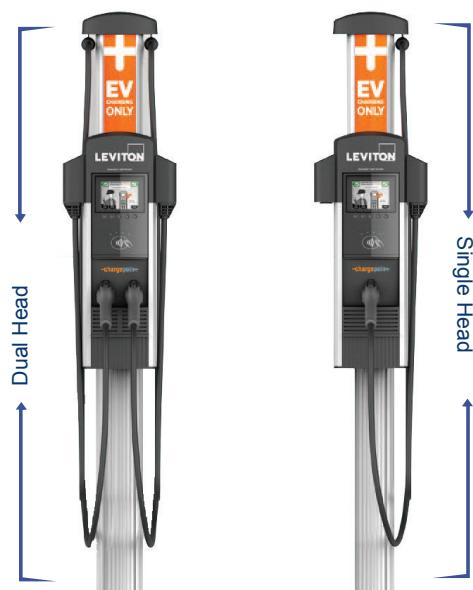
## Typical Configurations

Description	Components
Single Head Bollard	CPHU1, CPMBX, CPCAP-B, CPCBX, CPCMKT
Dual Head Bollard	CPHU2, CPMBX, CPCAP-B, CPCBX, CPCMKT
Single Head Wall Mount	CPHU1, CPMEX, CPCAP-W, CPCBX
Dual Head Wall Mount	CPHU2, CPMEX, CPCAP-W, CPCBX

## BOLLARD (FREE-STANDING) STATIONS



## WALL MOUNT STATIONS



## LCD Display

- Provides animated charging instructions in a clear, simple format
- Readable in daylight with automatic brightness control
- 5.7 inch 640X480 resolution active matrix display
- Full motion 30 fps video support
- Allows for custom video so that you may communicate with your users or deliver special advertising messaging
- Download up to 60 seconds of full-motion, full-color video\* (Video service plan required)

## Designed for Accessibility

- Buttons provide audio feedback
- Multiple languages supported (English, French, Spanish)

## Energy and Power Management

- Dual head stations allow a single 40 A circuit to be shared between two parking spaces (Power Sharing Kit included)
- Power select options to use in a 20 A or 30 A dual pole circuit
- Single vehicle charges at full 6.2/7.2 kW (30 A @ 208/240 V) and two vehicles simultaneously charge at 3.3/3.8 kW (16 A at 208/240 V) each
- Real-time energy measurement controlled within the modem and communicated through the cloud
- 15 minute interval recordings of energy use and station status
- Time of day (TOD) pricing



## Multi-Format RFID Card Reader

- ISO 15693, ISO 14443 and NFC
- Accepts ChargePoint cards as well as Visa, MasterCard, AmEx, and Discover contactless credit cards

## Gateway Design

- Removes the need for distance restrictions between chargers
- Stations are configured into optimal radio groups for better communication

## Hassle-Free Cord Management

- Self-retracting cord is always off the ground when not in use
- Ultra-reliable second-generation gravity operated mechanism

## Common Applications

- Office buildings
- MDU settings
- Municipalities
- Educational Institutions

✓ Qualifies for BC Rebate Programs\*

\* As of January 18<sup>th</sup>, 2021



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# EVR-Green® Commercial Line

LEVEL 2 | NON-NETWORKED | RFID | 30A

COMMERCIAL



✓ Qualifies for BC Rebate Programs\*

Evr-Green Level 2 Electric Vehicle Charging Station, 30 A, 208/240 VAC, 7.2kW Output, NEMA Type 3R Enclosure, 25' Cold Temperature Charging Cable, Hardwired, Includes Mounting Bracket and 2 RFID Cards

Whether you are the driver of an electric vehicle, a commercial business owner, a utility company, or a landlord, Leviton has the charging station for you. Evr-Green Level 2 Chargers enable fast charging of any SAE J1772™ compatible electric vehicle in a compact, affordable, and easy-to-use solution.

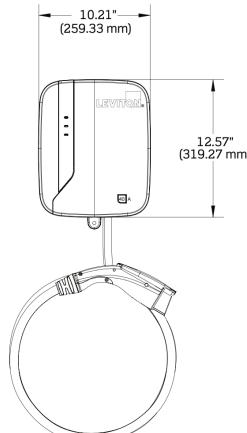
Cat. No.	Description
EVR30-R2C	Evr-Green® Charging Station with RFID, 30 A, 208-240 VAC, 7.2 kW output, 25' charging cable, hardwired, 2 x RFID cards
EVRFI	Additional RFID Card

\* As of January 18<sup>th</sup>, 2021

Electrical Specifications		Description
Amerpage	30 A 60 Hz	
Breaker	2 Pole, 40 A Breaker on Dedicated Circuit, Non-GFCI Type	
Voltage	240 VAC Single Phase and 208 VAC 3-Phase Y	
Charge Connector Cord	SAE J1772 Charge Connector	
Output Rating	7.2 kW (30 A @ 240 V) 6.2 kW (30 A @ 208 V)	
Phantom Power	< 7.5 W	
Number of Phase / Wire	L1, L2 and Ground, Bottom Feed	
Short Circuit Current Rating	20 mA CCID per UL 2231	
Station Operating Temperature	-30°C to 50°C	
Environmental Specifications		
Altitude	Up to 6,500 ft. (2,000 m)	
Charging Cable Operating Temperature	SAE J1772 Connector Cord : -40°F to +122°F (-40°C to +50°C )	
Cooling	Natural Cooling	
Operating Humidity	<95% Relative Humidity, Non-Condensing	
Material Specifications		
Enclosure Cover Material	Plastic (PC+PBT)	
Enclosure Rating	NEMA Type 3R	
Status Indicator	Power Present, Charging, Fault	
Charge Connector Cord	UL Type EV	
Mechanical Specifications		
Charging Cable Length	25 Ft (7.62 m)	
Product Features		
Card Reader	ISO/IEC 14443 Type A/B RFID For User Authentication	
Cover Locking Mechanism	Torx Screw to Prevent Unauthorized Access / No Padlock Option	
Standards & Certifications		
Certificates/Compliance	SAE J1772; UL 991; SAE J2953; NEC Article 625; UL 2594; CSA C22.2; No. 107.1; UL 2231-1; FCC; UL 2231-2; UL, cUL; UL 1998; RoHS	
Warranty		
Term	2-Year Limited Warranty	

## Features

- Drivers can quickly and easily activate their charger by tapping their RFID card on the front of the unit
- Compatible with all Electric Vehicle Supply Equipment (EVSE) Codes, Standards and Recommended Practices, including SAE J1772™, NEC 625, UL 2231 and UL 2594
- New cable design prevents cord from freezing and cracking in extreme weather (-40F/-40C)
- For indoor and outdoor use with a thermoplastic, water-resistant enclosure rated NEMA Type 3R
- “Auto-Reclosure” feature enables charging to restart following a minor fault, reducing the chance of having an undercharged vehicle battery
- Status indicator lights indicate power, charging status, and faults
- Compatible with EVJ30-25 and EVJ40-25 replacement cordset



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# VersiCharge AC Series | Gen3

LEVEL 2 | NON-NETWORKED | RFID | 40A - 48A

COMMERCIAL

## Powerful, versatile, cost-efficient

Siemens VersiCharge chargers have stood for superior quality, ruggedness, and proven technology for more than a decade and have reliably provided millions of charges to EV (electric vehicle) drivers worldwide. The new third generation VersiCharge AC charger is continuing this tradition with numerous groundbreaking enhancements, a fresh and appealing design, and up to 11.5 kW of AC (alternating current) charging power. Providing various communication options, including the option to establish a parent-child configuration.

The VersiCharge AC charger can be connected to the customer's preferred back-end system making it scalable and cost-efficient. It also offers revenue-accurate metering and can interact with building management system, such as Siemens Desigo for dynamic load management that smartly adjusts as building energy demand changes. The rugged and slender VersiCharge AC charger is suitable for both indoor and outdoor use and can either be mounted on a wall or supplementary post.

## The ideal solution for any application

Uniquely tailored for both commercial and home charging, VersiCharge AC charger comes with an easy-to-use mobile application and can charge any standard EV with just a tap of a button from your phone. VersiCharge AC home charger is energy star certified, and offers you cutting edge technology with the most affordable pricing.



### Commercial “Child” unit

Designed for commercial settings to facilitate Billing, Restricted access, load management, and data collection when connected to OCPP compliant software services via Wi-Fi or ethernet.

### Commercial “Parent” unit

Designed to provide all of the functionality of the commercial “Child” unit, but with a built in Cellular Gateway. This allows the parent unit to connect to software services via a SIM card, and then provide Wi-fi for up to 10 Commercial “Child” units.

Model number			HW ready for ISO 15118	Wi-Fi and Ethernet	Modbus RTU / TCP	RFID identification	Revenue grade metering	LTE WCDMA
Commercial versions	Child	40 A	8EM1310-4CF14-0GA0	✓	✓	✓	✓	✓
		48 A	8EM1310-5CF14-0GA0					-
	Parent	40 A	8EM1310-4CF14-1GA1	✓	✓	✓	✓	
		48 A	8EM1310-5CF14-1GA1					✓

# SIEMENS

## VersiCharge AC Series - Technical Data

Features and functions	
Charging mode	Level 2
Vehicle connection	J1772 plug with 20 ft cable, 40/48 A / integrated cable management
AC power output	Single phase up to 9.6 kW (40 A) or 11.5 kW (48 A)
Mounting options	Wall and post mounting, see accessories
Touch Button	Time delay, return to max, power level, reset ground fault
Charging status LEDs	Power, Cold start, time delay, charging state, reduced power level, authentication
Communication status LEDs	Connected / not connected during operation, signal strength during commissioning
Parent / child	Connects up to 10 units with wi-fi (appr. 200 ft. line of sight) or 24 child units with ethernet connection per parent unit to the back-end via Ethernet, Modbus
Load management	via OCPP or via Modbus
Communication	
Interfaces	Ethernet, Wi-Fi, Modbus RS-485, Modbus TCP/IP, for parent units additionally LTE, WCDMA
User authentication	RFID(local Whitelist, MiFare), ready for plug-and-charge acc. to ISO 15118 (upgradeable OTA)
Configuration	via Siemens mobile app
Back-end protocol	OCPP 1.6, upgrade-able to OCPP 2.0
Software upgrade	over the air (OTA)
Electrical Design	
Power supply voltage	Single phase: 208V / 240 V AC, 60 Hz
Rated current settings (A)	12, 16, 24, 32, 40, 48
Cross wire section	Single phase: 8 Awg / 6 Awg (75C rated wire)`
Network type	Single phase / split phase
Energy metering	revenue accurate, ANSI C12.20 compliant metering
Ground fault protection	20 mA
DC residual current monitoring	Not applicable
Over voltage protection	Under voltage: 167 V (min. 80 V) / over voltage: 267 V (max. 275 V)
Over current protection	Current +10% above configured threshold, min. +2A, 5 seconds
Operating altitude	9,840 ft
General design	
Environmental rating	Indoor and Outdoor, NEMA 4, IK 10
Dimensions (HxWxD)	40.9 x 18.1 x 9.6 (cm) / 6.10 x 7.09 x 3.78 (in)
Weight	7.7 (kg) / 17 lbs
Ambient conditions	Operating temperature: -31°F - +122°F, Storage Temp.: -40°F to +140°F, 98% non condensing
Colors	Silver Metallic (Pantone 10077), Black holster
Certificates and standards	
cUL listed	according to UL 1998, UL 991, UL2594/CSA C22.2 No.280/NMX-J-677-ANCE, UL 2231-1/CSA C22.2 No.281.1/NMX-J-668-1, UL 2231-2/CSA C22.2 No.281.2/NMX-J-668/2-ANCE, UL 2251/CSA C22.2 No.282/NMX-J-678-ANCE
EMC	FCC Part 15.247, FCC Part 15B, FCC Part 15CMax



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# Accessories

# Leviton Charging Station Pedestal

## ACCESORIES



Pedestal Mounting Pole and Base for use only with Evr-Green EVR30-B1C, EVR40-B2C, and EVR30-R2C Electric Vehicle Charging Stations

Whether you are the driver of an electric vehicle, a commercial business owner, a utility company, or a landlord, Leviton has the charging station for you. Evr-Green Level 2 Chargers enable fast charging of any SAE J1772™ compatible electric vehicle in a compact, affordable, and easy to use solution to EV charging.

- Allows for one or two electric vehicle charging stations to be efficiently mounted on a freestanding pedestal to save installation cost, space and time
- Compliant with Americans with Disabilities Act (ADA) recommended charge connect height of less than 48" and greater than 24"
- Common applications: office buildings, MDU settings, city & township municipalities, educational institutions
- For use only with Evr-Green EVR30-B1C, EVR40-B2C, and EVR30-R2C Electric Vehicle Charging Stations

Part Number: EVPED-2

**LEVITON**®



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# DCC-9 Electric Vehicle Energy Management System

## ACCESORIES

**DCC-9** is an energy management system designed to allow the connection of an EV charger to the main feeder of a panel without affecting the load calculation.

Models	Breaker	Main power supply							
		EV charger	60A	70A	80A	90A	100A	125A	150A
DCC-10-30A	30A	✓	✓	✓	✓	✓	✓	✓	✓
DCC-10-40A	40A	✗	✗	✓	✓	✓	✓	✓	✓
DCC-10-50A	50A	✗	✗	✗	✗	✓	✓	✓	✓
DCC-10-60A	60A	✗	✗	✗	✗	✗	✓	✓	✓

Voltage and wiring	240/208V AC single phase: L1, L2, Neutral, Ground.	
Frequency	50 to 60 Hz	
Operation temperature	-22°F to 113°F (-30°C to 45°C)	
Dimensions* [H" x W" x D"]		Total weight*
11" x 11" x 4.5"		12 lb (5,44 kg)
NEMA 3R enclosure	14" x 13" x 8"	14 lb (6,35 kg)

\*Approximate and can change without notice.

v1

## Operation

- Real-time reading of the total panel power consumption with pre-wired current transformers (CT).
- Detects when total power consumption exceeds 80% of main circuit breaker capacity and temporarily de-energizes the EV charger.
- Automatically re-energizes the EV charger when the total power consumption is less than 80% of main circuit breaker capacity for more than 15 minutes.

## Features

- Ideal when no more breaker slots are available in a panel
- Does not affect load calculation of a panel
- Automatic billing of electricity by the utility for multi-unit residential building installations.
- Can be ceiling or wall mounted.
- NEMA 3R enclosure available for outdoor installations.



**DCC**

# DCC-10 Electric Vehicle Energy Management System

## ACCESORIES

**DCC-10** is an energy management system specifically designed to allow the connection of an EV charger to a panel that is at full capacity and would otherwise need a service upgrade.

Models	Breaker	Main power supply						
		EV charger	60A	70A	80A	90A	100A	125A
DCC-9-30A	30A		✓	✓	✓	✓	✓	✓
DCC-9-40A	40A		✗	✗	✓	✓	✓	✓
DCC-9-50A	50A		✗	✗	✗	✗	✓	✓
DCC-9-60A	60A		✗	✗	✗	✗	✗	✓

Voltage and wiring	240/208V AC single phase: L1, L2, Neutral, Ground.	
Terminals size	up to 2/0 (CU/AL)	
Frequency	50 to 60 Hz	
Operation temperature	-22°F to 113°F (-30°C to 45°C)	
Dimensions* [H" x W" x D"]	Total weight*	
12" x 12" x 7.5"	17 lb (7,71 kg)	
NEMA 3R enclosure	14" x 13" x 8"	18 lb (8,16 kg)

## Included

- Charge Controller
- EV Charger Breaker (Max 60A)
- 2 Split Core Current Transformers (CT)

## Operation

- Real-time reading of the total power consumption of the home's electrical panel;
- Detects when total power consumption exceeds 80% of main circuit breaker capacity and temporarily de-energizes the EV charger;
- Automatically re-energize the EV charger when the total power consumption of the electrical panel is less than 80% of its capacity for more than 15 minutes.
- Requires one double pole breaker slot available in a panel.

## Features

- Does not affect load calculation of a panel.
- Automatic billing of electricity by the utility.
- Can be wall or ceiling mounted.
- NEMA 3R enclosure available for outdoor installation.



**DCC**



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# Load Saver Enclosure - Steel - CSA 3R

## ACCESORIES

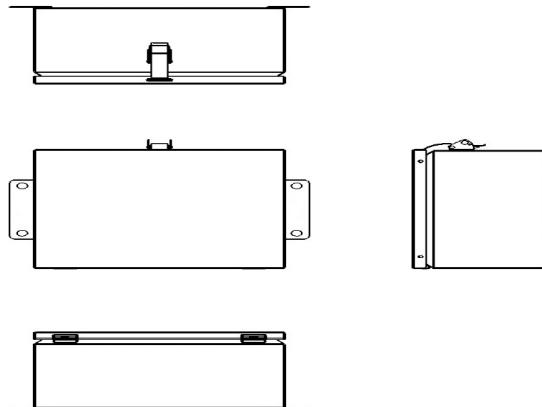


### Specialty Boxes

Designed as a device to allow a single circuit to be shared between an essential and non-essential load. This allows for savings when a higher amperage service would be required. Pre-wired, labeled and certified for quick and easy installation. CSA 3R rated for maximum flexibility in installation locations. Primarily used to connect EV Chargers, appliances, or any other non-essential application.

### Includes

- Backpan
- Amperage Appropriate Contactor
- Field Adjustable Trip Point
- Labeled Connection Points and Terminal Blocks For Easy Install
- Steel CSA 3R Enclosure
- Hinged, Padlockable Cover
- Powder Coated ASA61 Grey
- ETL Certified Assembly



CAT No:	VOLTS	PHASE	AMP	SIZES
LS-S-30	120/240	1	30	12 x 10 x 6
LS-S-40	120/240	1	40	12 x 10 x 6
LS-S-50	120/240	1	50	12 x 10 x 6
LS-S-60	120/240	1	60	12 x 10 x 6





## Federal Rebate Programs

# Federal Rebate Rebate Programs

## About Canada's Electric Vehicle and Alternative Fuel Infrastructure Deployment Initiative

As of March 2020, the Program has selected 837 EV fast chargers, 23 natural gas refuelling stations and 8 hydrogen refuelling stations for funding.

Building on this investment, Budget 2019 provided an additional \$130M over five years (April 2019 to March 2024) to support Canada's ambitious zero emission vehicle (ZEV) penetration targets of 100% new vehicle sales by 2040, which required incremental funding to the Electric Vehicle and Alternative Fuel Infrastructure funding, to accelerate and densify infrastructure deployment. The investments go beyond the national highway system, and focus on EV level 2 charging at workplaces, commercial and multi-unit residential buildings, public places, on-street and projects for fleets (e.g. taxis, car sharing), mass transit and inner city delivery.

**NOTE:** Many provincial and municipal governments require the installation to be done by a certified electrician. Consider working with an electrician who has completed the Electric Vehicle Infrastructure Training program.

**NEED HELP?** Contact us if you need help connecting with a certified electrician for your EV Charging Station.

## How much can you receive?

NRCAN's repayable contribution through this Program will be limited to a maximum of five million dollars (\$5,000,000) per project.

For **EV fast chargers (from 50 kW power output and above)**, the Program will pay up to 50% of the total project costs to a maximum of fifty thousand dollars (\$50,000) per fast charger.

The following EV chargers are also eligible for funding **if placed with a level 3 fast charger as a supplementary charging option at the same site:**

For **EV fast chargers (from 20 kW to 49 kW power output)**, the Program will pay up to 50% of the total project costs to a maximum of \$15,000 per fast charger.

For **Level 2 (208 / 240 V from 3.2 kW to 19.2 kW power output) EV chargers**, the Program will pay up to 50% of the total project costs to a maximum of \$5,000 per connector. In order to be eligible for the maximum funding per connector, each connector must be able to charge a vehicle at the same time.

**Contact Us for Information on Provincial Rebate Programs**



## Eligible Recipients

Legal entities validly incorporated or registered in Canada including not-for-profit and for-profit organizations such as:

- Electricity or gas utilities
- Companies
- Industry associations
- Research associations
- Standards organizations
- Indigenous and community groups
- Academic institutions
- Provincial, territorial, regional or municipal governments or their departments or agencies where applicable

Some international legal entities are also eligible. Visit [nrcan.gc.ca](http://nrcan.gc.ca) for more info.

## Eligible Projects

### Projects must:

- be a permanent installation serving on-road, licensed vehicles and be located in Canada;
- be new and purchased equipment (not leased);
- be for a new installation or increase the current capacity of an existing installation (not for the replacement of an existing installation);
- be an eligible technology (see eligible technologies below);
- be open to the public at all times for EV chargers and as appropriate for natural gas and hydrogen refuelling stations;
- allow for networking (for EV chargers only);
- offer at least one payment option free of any network membership requirement; and
- be completed within twenty-four (24) months for charging infrastructure and thirty (30) months for refuelling infrastructure.



## E.B. Horsman & Son Disclaimer

The information provided in this document on available federal and provincial rebate programs is shared directly from the Government of Canada website on January 26, 2021. E.B. Horsman & Son is not liable for any outdated, mis-interpreted, false, or mis-information regarding the rebate programs, its eligibility, qualified products, or the rebate amounts. For the most up-to-date information, please visit [nrcan.gc.ca](http://nrcan.gc.ca).

January 2021



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Duncan, BC V9L 6W3  
Tel: 250.748.3377

**Parksville**  
1023 Herring Gull Way  
Parksville, BC V9P 1R2  
Tel: 250.954.1797

**Victoria**  
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Victoria, BC V8X 2S8  
Tel: 250.475.1999

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Calgary, AB T2C 3E3  
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**Edmonton**  
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### BC INTERIOR

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Tel: 250.374.3191

**Penticton**  
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**Vernon**  
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### Lower Mainland BC

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**Richmond**  
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Tel: 604.273.1981

**Surrey**  
13055 80<sup>th</sup> Avenue  
Surrey, BC V3W 3B1  
Tel: 604.596.7111

### NORTHERN BC

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