

Electric Car

I N S I D E R

COMMERCIAL EVSE BUYERS GUIDE

INDEPENDENT
REVIEWS



Comprehensive Specifications

EVBox
Ion



EverCharge
EV Connector



US: \$9.45 CA: \$11.45

SIEMENS
Ingenuity for life

Energizing the evolution of eMobility

Come charge on with Siemens VersiCharge™

The next generation of Siemens VersiCharge AC chargers is the perfect charger for any application. Enjoy many benefits and features, such as easy to use app, smart building integration, flexible communication connections (Wi-Fi, Cellular, Ethernet), ISO15118 hardware ready, open payment options, secure billing, faster charging, smart load management, OCPP and Modbus communications, and more.

Siemens has a full range of eMobility® solutions for light, medium, and heavy-duty electric vehicles. Our PlugtoGrid™, end-to-end set of solutions for EV infrastructure, allow you to easily connect chargers to the grid with electrical power distribution solutions, as well as flexible options like energy storage, renewable power integration, and managed cloud services. Come charge on with Siemens!

usa.siemens.com/versicharge

From the Editor

EV Charging is a Tenant Amenity

Electric vehicle adoption is growing rapidly and that growth is accelerating. In California, 7.8% of new car sales were electric in 2019. The state has set a goal of 5 million plug-in vehicles on the road by 2030. In other states the EV share of new sales lags a bit, with sales volumes between 2%-5%. More states are poised to adopt Zero Emission Vehicle (ZEV) mandates so the rate of adoption is certain to increase. Bloomberg New Energy Finance (BNEF) forecasts that electric vehicles will make up 35% of total new car sales by 2040.

For workplace, retail and multi-tenant dwellings, a place to plug in is increasingly becoming a requirement. Building owners and managers can not ignore the need for employees, customers and tenants to plug in any more than they can ignore the need for parking or bathrooms. It's an essential service.

In a recent survey of 84,000 renters by Multifamily Executive Magazine, 15% said they planned on buying an EV within the next five years. Of the 15% of renters who plan to buy an EV in the next five years, 58% expressed a willingness to pay for the amenity. In fact, 40% of those who said yes would pay at least \$10 more per month to have charging stations on site.

Hotels are installing EV stations on their properties to attract customers. The ability to accommodate a traveler who needs to charge overnight is a significant competitive advantage. Drivers will go out of their way to patronize a hotel with a slow charge while they are sleeping instead of having to wait for 30-60 minutes at a fast charger enroute.

For retailers, the installation of chargers earns the property a pin drop on the map in the dash navigation or mobile app that EV drivers use to determine where to shop and

“EV Charging will attract tech-savvy tenants, workers and retail customers.”

charge. When a charge session can be used to accomplish other tasks, like having a meal or shopping, the wait is no inconvenience. Retailers that provide charging stations find that customers spend an additional 30 minutes in the store.

In most apps, medium-speed Level 2 are depicted with a green pin. Fast chargers are shown with an orange pin. The presence of a pin on the map is like a beacon for travelers. EV drivers establish routines and establish loyalty to locations that facilitate their transportation fuel requirements. A mall or retail store with a charger quickly becomes a preferred destination.

In the workplace, charging is a perk that can help attract talented employees who value cost savings, technical innovation and sustainability. Since workplace charging is likely to involve long dwell times, these cars can be charged at relatively low speeds and still satisfy the charge requirement.

In applications where a large number of cars need to be charged at the same time, chargers capable of load management can ensure that the maximum number of circuits can be provided without requiring expensive panel or electrical service upgrades.

EV charging might best be thought of as an amenity similar to the now-ubiquitous WiFi internet access. It's a service that is simply *de rigueur* for workplaces, multi-tenant dwellings and consumer goods and services.

Christopher Alan
PUBLISHER

Staff

Editorial:

Christopher Alan
Austin Tannenbaum
Rick Durst

Design:

Richard Baron
Christina Schulz

Main Cover Photo:

Tesla (composite by
Christina Schulz)

Research:

Frida Espinoza

Electric Car Insider is hiring!

Contact:

Electric Car Insider
9740 Campo Rd #171
Spring Valley, CA 91977
619.335.7102
chris@electric-car-insider.com

© Electric Car Insider
All rights reserved

PowerCharge™ provides premium electric vehicle charging products with first-class support.

Powerful • Reliable • Durable
Industry Best U.S. Support
Commercial • Residential • Fleet



Pro Series



Energy Series



Pro-Lightning Series

PowerCharge™

PowerChargeEV.com

Charge Up!

(585) 533-4085

(East Coast)

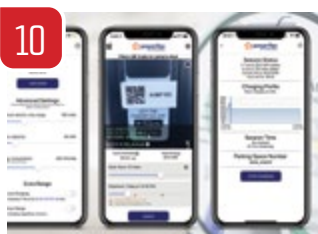
(800) 521-7150

(West Coast)

Mention code "**CHARGEUP2020**" when you call our product specialists for a free gift!
(No purchase necessary)

ELECTRIC CHARGERS

EDF Renewables PowerFlex	10
JuiceBar Gen 3 Series	12
BEAM EV ARC 2020	14
PowerCharge Pro-Lightning	16
EverCharge EV Connector	17
EVBox BusinessLine	18
Clipper Creek HCS40R	20
Siemens VersiCharge AC	22
Phillips & Temro EVOCHARGE	23
BTC Power 70A	24
Liberty Plugins Hydra-R	25
Blink IQ 200	26
Webasto TurboDX	28
Enel X Juice Box Pro44	29
FreeWire Mobi EV Charger	31
EV Connect Softw. Platform	34
Tesla Wall Connector	36
Tellus Power Level 2	38
ChargePoint CT4000	39
Efacec Public Charger	40
SemaConnect Series 6	42
EVBox Iqon	44
ABB Terra DC Wallbox	45
Tritium RT50	46
EVBox Troniq 100	47



29

**FEATURES**

From the Editor	
EV Charging is a Tenant Amenity	3
Mobile EVSE Classroom	
Tesla Cybertruck brings EVSE demo gear to your town	48
Cable Management	
Organization and Safety	50
Access Controls	
Provisioning, Security and Revenue	52
EV Charging Energy Management	
Resource Allocation, Efficiency and Cost Savings	54
Nuvve, Enel X Lead North American	
Vehicle to Grid Technology	58

SERVICE PROVIDERS

LilyPad EV	8
Greenlots	13
In-Charge Energy	21
EV Charging Pros / Low Power EV Charging	30
National Car Charging	41
EV Match	51

EV CHARGER BUYERS GUIDE

Specifications Matrix	6
Profiles and Specifications	8
Supplier Directory	59

EV Charger Matrix

Specification Quick Reference



Mfg	Model	Yr Intro	Volts	Amps	kW	MSRP Base	Hardwire	Page
ABB	Terra DC Wallbox	2020	150-920	60	24	On Request	Yes	45
BEAM	EV ARC 2020	2020	208-240	18	4.3	On Request	N/A	14
Blink	IQ 200	2020	208-240	80	19.2	On Request	Yes	26
BTC Power	70A	2020	208-240	70	16.8	On Request	Yes	24
ChargePoint	CT4000	2013	240	16-30	3.8- 7.2	\$8k-\$12,000	Yes	39
Clipper Creek	HCS40R	2020	208-240	32	7.7	\$665	Yes	20
EDF Renewables	PowerFlex	2015	208-240	32-80	19.2	\$6,000/yr	Yes	10
Efacec	Public Charger	2010	208-240	16-32	3.7-7.4	\$4,920	Yes	40
Enel X	Juice Box Pro	2020	208-240	40	9.6	\$1,399	Yes	29
EVBox	BusinessLine	2016	208-240	16, 32	3.8-7.7	\$1,795-\$4,640	Yes	18
EVBox	Iqon	2020	208-240	30	7.2	\$5,795	Yes	44
EVBox	Troniq	2020	500	200	100	\$43,250	Yes	47
Evercharge	EV Connector	2013	208-240	30-80	7.2-19.2	On Request	Yes	17
Freewire Tech.	Mobi EV Charger	2015	240	32	11	On Request	No	31
JuiceBar	Gen 3 Series	2020	208-240	32-80	6.6-19.2	\$5,200-\$6,818	Yes	12
Liberty Plugins	Hydra	2013	110-240	32	7.7	On Request	N/A	25
Phillips & Temro	EVOCHARGE	2012	208-240	32	7.7	\$479, \$679	N/A	23
PowerCharge	Pro-Lightning	2020	208-240	16-32	3.8-7.7	On Request	Yes	16
Siemens	VersiCharge	2020	208-240	40-48	2.8-11.5	On Request	Yes	22
SemaConnect	Series 6 EV Chrg	2011	208-240	30	7.2	On Request	Yes	42
Tellus Power	Level 2	2015	208-240	30	7.2	\$2,899	Yes	38
Tesla	Wall Connector	2012	208-240	12-48	2.8-11.5	\$500	Yes	36
Tritium	RT50	2020	380-480	100	50	On Request	Yes	46
Webasto	TurboDX	2019	208-240	16, 32	3.8, 7.7	On Request	Yes	28

Dashes in the matrix represent specs not available at time of printing.

Not all suppliers participate in the Supplier Quick Contact System. To contact suppliers not listed, please refer to the Internet.

Supplier Quick Contact

Request contact, literature or a quote

Mfg	Product	Contact	Literature	Quote	Urgent	Ad Page	Profile
BEAM	EV ARC 2020	☐	☐	☐	☐	41	14
Blink	IQ 200	☐	☐	☐	☐	-	26
BTC Power	Single Port 70A	☐	☐	☐	☐	-	24
Clipper Creek	HCS40R	☐	☐	☐	☐	27	20
EDF Renewables	PowerFlex	☐	☐	☐	☐	35	10
Enel X	Juice Box Pro	☐	☐	☐	☐	-	29
EVBox	BusinessLine, Iqon, Troniq	☐	☐	☐	☐	13	18, 44, 47
Evercharge	EV Connector	☐	☐	☐	☐	9	17
EV Charging Pros		☐	☐	☐	☐	-	30
EVmatch		☐	☐	☐	☐	30	51
Freewire	Mobi EV Charger	☐	☐	☐	☐	62	31
GreenLots	EVSE Service	☐	☐	☐	☐	-	13
In-Charge Energy		☐	☐	☐	☐	15	21
JuiceBar	Gen 3	☐	☐	☐	☐	21	12
Liberty Plugins	Hydra	☐	☐	☐	☐	51	25
LilyPad EV		☐	☐	☐	☐	43	8
Low Power EV Charging		☐	☐	☐	☐	-	30
National Car Charging		☐	☐	☐	☐	55	41
Nuvve		☐	☐	☐	☐	-	58
Phillips & Temro	EVOCHARGE	☐	☐	☐	☐	11	23
PowerCharge	Pro-Lightning	☐	☐	☐	☐	4	16
Siemens	VersiCharge	☐	☐	☐	☐	2	22
Tritium	RT50	☐	☐	☐	☐	-	46
Webasto	TurboDX	☐	☐	☐	☐	-	28

Company _____ Contact _____

Address _____ City _____ State _____ Zip _____

Phone _____ Email _____

Requests may be made online at electric-car-insider.com/evsereq or by texting or emailing a photo of this page to evsereq@electric-car-insider.com.

Your contact info will only be used to fulfill your request and never for any other purpose.

LilyPad EV

Turnkey Provider of Charging Stations

BY CHRISTOPHER ALAN

LilyPad EV is an experienced full-service provider of electric vehicle charging stations who has deployed more than 3,500 charging station ports in 36 states across the U.S. The company says it has the capability to provide charging stations and installation service anywhere in the U.S.

LilyPad EV's expertise spans the spectrum required for successful deployments of EV charging stations. The company has installed small sites of just 1-2 stations and has successfully completed the installation of over 1,000 stations for electric utility Evergy in their service territory in KS and MO, which is one of the largest deployments of

EV chargers in any metro area.

In addition to deploying Level 2 charging stations in metro areas, the company has experience deploying Fast DC Charging Stations in metro areas and along highway corridors. The firm recently deployed fast chargers at 11 highway sites for the electric utility Ameren Missouri. LilyPad EV has provided charging stations and turnkey charging station installations for a diverse range of clients, including municipalities, counties, electric utility companies, educational institutions, multi-family dwellings and private enterprises. The company's breadth of experience ensures that they can handle any

new construction or retrofit project.

LilyPad sells and installs chargers from ChargePoint, one of the leading providers of networked EV charging stations. LilyPad EV CEO Larry Kinder says the company can provide turnkey or a la carte services ranging from advice, consulting, sales, installation, maintenance, project management, and site acquisition.



PHOTO: LILYPAD EV

Electric Car Guest Drive

Truck and SUV Edition

BY CHRISTOPHER ALAN

When the Cybertruck was unveiled at Tesla's design studio in Hawthorne in November last year, Electric Car Insider (ECI) staff were in the audience and immediately afterward put down deposits for several Cybertrucks.

It was obvious that the Cybertruck would be very popular at the Electric Car Guest Drive, drawing interest even from people who were not yet EV fans, people

who need massive 4WD torque for example, or bulletproof work trucks.

The other standout all-electric truck to be available next year is the Rivian R1T. ECI has also placed a deposit for early access to this 400-mile capable truck.

As soon as ECI takes delivery of these trucks in 2021, these vehicles and several SUVs, including the Ford Mustang Mach E, Jaguar I-Pace and Mitsubishi Outlander,

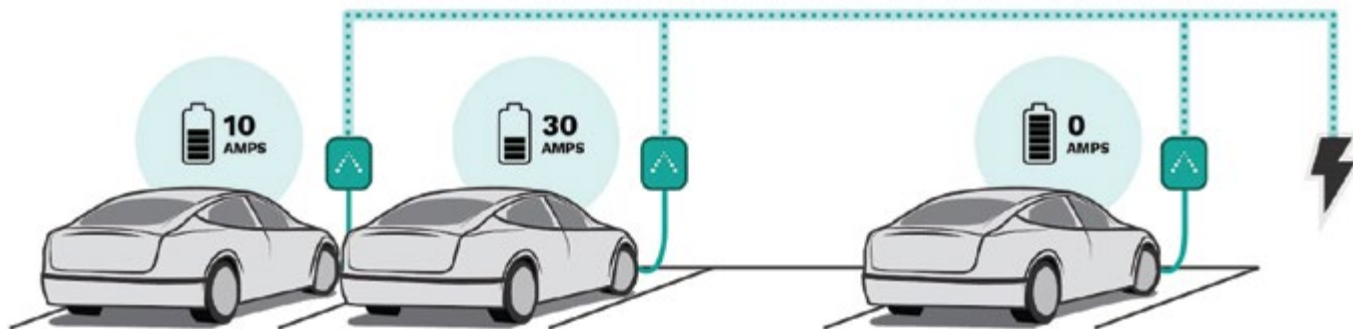
will be put on a nationwide tour.

Visitors to the events will be able to view, inspect and test drive these trucks, and talk to EV owners who drive electric on a daily basis.

More information about the Truck edition of the Electric Car Guest Drive, including tour dates and cities will be available on the Electric Car Insider web site as it becomes available.



Tesla Cybertruck



Is It Possible to Charge Hundreds of EVs Parked at Your Apartment, Condo, Office, or Fleet Facility?

Yes! EverCharge offers facilities the most comprehensive full-service EV charging solution with a building load management technology capable of installing large numbers of EVSEs per location.

Regardless if the initial need is for 1 or 100+ EVSEs, EverCharge maximizes building power enabling future-proofed, low-cost electric vehicle supply equipment (EVSE) installations. Whether a multi-tenant facility or fleet operation, EverCharge delivers a fully integrated and managed solution with optional customer support, warranty, billing, usage reimbursements, and more all included.

EverCharge's technology, SmartPower, avoids infrastructure upgrades and lowers total install costs by intelligently managing power based on vehicle demand. Reacting to real-time demand means significantly less electrical capacity is needed to support charging, minimizing infrastructure costs. To further reduce

operational costs, SmartPower monitors all electrical loads to avoid demand charge impacts from charging.

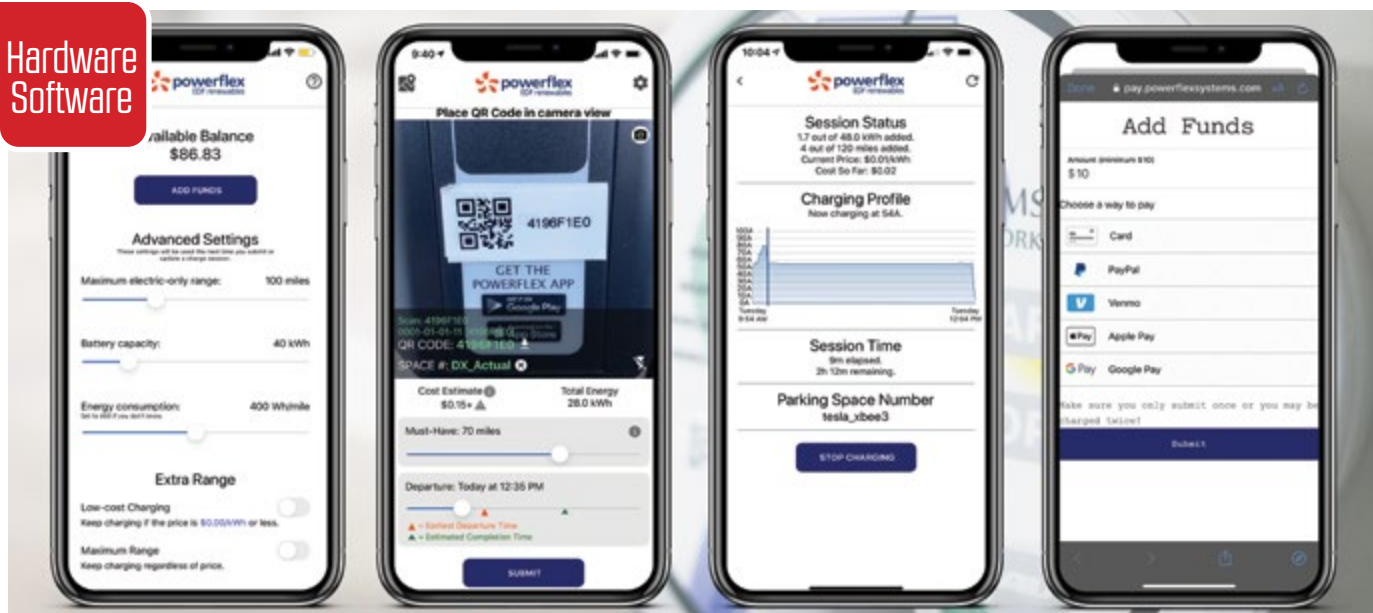
All of this is done seamlessly without the need for driver inputs or specialized hardware outside of EverCharge's EVSEs designed to work in all garages and other parking environments. Communicating wirelessly, EverCharge EVSEs also allow for the placement of charge stations anywhere throughout a facility even those with limited to no cell reception.

Working directly with property owners, developers, management groups, and fleet operators, EverCharge addresses requirements by facility and across entire property portfolios throughout North America. Contact EverCharge at **charging@EverCharge.net or 888-342-7383**

How EverCharge compares to traditional charging systems

Available Power	Traditional	EverCharge
100 Amps	3 EVSEs	15 EVSEs
200 Amps	8 EVSEs	25 EVSEs
400 Amps	15 EVSEs	60 EVSEs
800 Amps	30 EVSEs	100 EVSEs

Hardware
Software



2015-2020

EDF RENEWABLES PowerFlex

PowerFlex is an energy management system which leverages load balancing techniques to save owners money and improve customers' charging experiences. Through the utilization of its load management technology, PowerFlex enables property owners to install a larger number of charging stations than the property's power limitations would traditionally allow. It does this using its Adaptive Load Management (ALM) software. ALM processes both building data such as electricity load and onsite generation and vehicle data such as vehicle type, charger type, departure time, and required mileage. It then calculates and allocates the appropriate power output to each vehicle. Unlike standard standalone charging stations, PowerFlex enables chargers to deliver power below their maximum output for more intelligent use of available power. This can allow owners to install 3-4 times more stations than non-load balanced systems. PowerFlex offers a number of benefits to owners and users. Most directly, the ability to offer more charging stations enables site owners to service more customers. This increase in charging stations may be achieved without expensive electrical system upgrades. PowerFlex can also be used to ensure that owners avoid peak demand costs to secure additional savings. On the consumer end, drivers can enjoy the security of a reliable place to recharge. PowerFlex is a turnkey EV charging station solution, providing inspection, planning, physical chargers, software, installation, and maintenance.

ACQUISITION

MSRP **\$6,000/yr**
Availability **2015-2020**
Warranty **3 years**

RATING

Volts **208V/240V**
Amps **32A-80A**
Watts **Up to 19.2kW**

WIRING

Hardwire **Yes**
Plug Type **Hardwired**
Breaker **40A-100A**

CABLE

Connector **J1772**
Cord Length (ft) **15 ft or 25 ft**

USER INTERFACE

Interface Type **Mobile app**
Communication **Wifi, Ether., Cell.**
SW **PowerFlex app, dash**

DIMENSIONS

Dimensions **12" x 5" x 3.5"**
Weight **12 lbs**
Enclosure **NEMA 3R**
Rating **Indoor/Outdoor**
Temperature **-40F to 140F**



EVOCHARGE™

EV Charging Systems That Deserve More Than a **Fleeting Glance**

Choose a robust and faster charging solution for your Electric Vehicle Fleet.

EVOCHARGE™ iEVSE® Plus Level 2 Charging Station,
EVOREEL® and 6 ft. Pedestal Shown.

- Compatible with all EVs and PHEVs sold in North America
- Level 2 charges up to 8X faster than Level 1
- Compact, modern design
- Industry leading EVOREEL® Cable Management meet OSHA and ADA
- Multiple configurations to meet your requirements
- Adjustable Current Output Settings and Local Load Management provide opportunity to use existing electrical infrastructure and reduce install costs

SEE DETAILS ON PAGE 23

For more information, contact us at
evochargesales@phillipsandtemro.com



Local Load Management



phillipsandtemro.com/electrification

PHILLIPS & TEMRO
industries®

Level 2



2020 JUICEBAR Gen 3 Series

In May of 2020, JuiceBar unveiled its latest AC level 2 charger series, the Gen 3. The Gen 3 is available in four power configurations: 32-, 40-, 48- and 80-amps. The variable power configurations are designed to accommodate the newer higher-powered EVs and the demands of mass-market adoption. The Gen 3 80-amp charging speed is more than double the speed of the average Level 2 charger.

The Gen 3 is open architecture, supporting a variety of OCPP compliant networks. All Gen 3 models offer both cellular and ethernet connectivity and advanced, simple-to-use smart charging features, including reservation booking, different payment and access options, and dashboard-based reporting. The Gen 3 technology is highly customizable and can provide integration into a variety of third-party applications.

Gen 3 chargers are built and assembled in the U.S. with all metal enclosures. They can be either wall or pedestal mounted. The Gen 3 chargers include a proprietary, integrated cable management system specifically designed for EV chargers. The face of the Gen 3 chargers is lit with an LED strip for visibility. JuiceBar provides branding options for the front of the charger.

All JuiceBar charging stations are certified to UL standards. JuiceBar chargers are compatible with all EVs. JuiceBar provides site hosts 'start to finish' assistance and support, and around the clock customer service.



ACQUISITION

MSRP **\$5,200-\$6,818**
Availability **2020**
Warranty **3-5 years**

RATING

Volts **208-240V**
Amps **32A, 40A, 48A, 80A**
Watts **6.6-19.2 kW**

WIRING

Hardwire **Yes**
Plug Type **NA**
Breaker **Varies by model**

CABLE

Connector **J1772**
Cord Length (ft) **18 ft**

USER INTERFACE

Interface **Ph, Mob, App, QR, RFID**
Communications **Ethern., cellular**
Software **OCPP 1.6J**

DIMENSIONS

Dimensions **36.5"H x 16"W x 12"D**
Weight **Varies by model**
Enclosure **Type 3R**
Rating **Indoor/Outdoor**
Temperature **- 13F to +122F**

Greenlots

EV Charging Station Service

BY CHRISTOPHER ALAN

Greenlots is a comprehensive EV charging station service. It helps commercial properties, utilities, municipalities, workplaces, and apartment buildings get their charging sites up and running. Greenlots begins by evaluating a site's layout, energy load, and power requirements. It

then designs a charging program that optimizes a site's existing infrastructure to ensure reliable charging. Owners select a charging station from the multiple brands of Level 2 and DC chargers offered by Greenlots. Greenlots is equipped to perform both site construction and installation of

the charging stations. It also provides maintenance services and 24/7 support for both customers and owners.



PHOTO: GREENLOTS

EVBOX

evbox.com/eci

With EVBox you are in charge.

Our future-proof and interoperable AC and DC charging stations make it easy to create the most accessible, intelligent, intuitive, and reliable EV charging solution for you.

Reach out to us at info.us@evbox.com to learn more about the next generation of EVSE.



- **Integrated with multiple EV network providers.** Get the freedom to choose or change your software at any time.
- **Smart charging enabled.** Make the most efficient use of your power and allow more active sessions.
- **A trusted global industry leader.** Work with a company that has over 10 years of experience, 125,000+ charging ports installed worldwide, and a North American production facility in Libertyville, IL.



Elvi

BusinessLine

Iqon

Troniq 100

Residential

Commercial (AC)

Commercial (DC)

A full product portfolio for every type of charging

Learn more about electric driving & charging at evbox.com/eci



evbox



evboxbv



evbox



evboxglobal

Level 2



2020 BEAM EV ARC 2020

BEAM, formerly Envision Solar, bills the EV ARC 2020 as the “The No-Construction EV Charging Solution.” The unit is comprised of EV charging units, a tilting solar canopy, a flat steel ballast and traction pad base plate and 24kWh of stationary storage batteries. A typical installation includes two EVSE but it can be outfitted to charge up to 6 EVs at a time. The charging cables can reach as many as 10 charging spaces.

The premise of the product is that a large part of EVSE cost of acquisition is the installation cost. The EV ARC requires no trenching, no concrete pedestals or bollards, no conduit, no panel wiring and no mains service upgrades. Without any utility service upgrades, EV charging can scale to as many unshaded car parking spaces are available.

The EV ARC will fit inside a standard parking space. Any vehicle can park on the EV ARC’s heavy steel base pad. The unit does not reduce available parking space. Multiple units can be installed side by side. The units are intended to be permanent installations, but can be easily relocated or transported.

The EV ARC is charger-agnostic. BEAM partners with several different EVSE providers to supply the charging units which interface between the solar canopy/ battery and the vehicle. Cable length is determined by the EVSE unit chosen.

Because the EV ARC generates and stores all of its own electricity it is the perfect disaster preparedness tool. BEAM says the unit is flood-proof to 9.5 feet, and is certified to withstand 120 mph wind load.



ACQUISITION

MSRP **Upon request**
Availability ... **2020. 90 day lead**
Warranty ... **1 year + components**

RATING

Volts **208-240V**
Amps **18A**
Watts **4.3kW**

WIRING

Hardwire **None needed**
Plug Type **None needed**
Breaker **None needed**

CABLE

Connector **J1772**
Cord Length (ft) **18-25 ft**

USER INTERFACE

Interface Type **See EVSE**
Communications **See EVSE**
Software **See EVSE**

DIMENSIONS

Dimensions .. **15.3'Hx7.5'Wx18'D**
Weight **<12,500 lbs**
Enclosure **See EVSE**
Rating **Outdoor**
Temperature **--**

IN-CHARGE

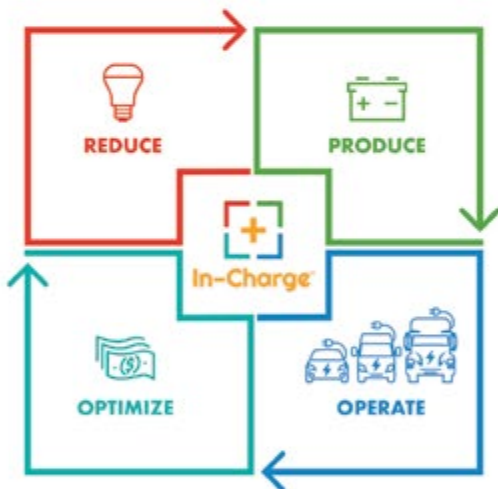
Provides Turnkey Solutions to Accelerate Electrification of the Transportation Industry.

Converting your fleet to electric saves money. We're here to make sure your transition is a success. We provide scalable, turnkey, end to end commercial EV infrastructure solutions.

We Bring The Power™

THE IN-CHARGE SOLUTION

Our scalable, resilient infrastructure solutions expand with your facility over time:



FACILITY ENERGY CONSERVATION

We help reduce energy use at your facility, so you can charge EVs without having to upgrade your electrical infrastructure beforehand.



CHARGING INFRASTRUCTURE

We design, engineer, and build EV charging and behind-the-meter infrastructure. We also harness all available federal, state, local tax/unit incentives and grants.



OPERATION

We provide ongoing maintenance, certification, software integration, and energy management.



OPTIMIZATION

We minimize installation costs, optimize energy use, eliminate demand charges, and reduce operating expenses.

THE IN-CHARGE ADVANTAGE

We tailor our solutions to facility managers, fleets, EV manufacturers, ride-share operators, municipalities and utilities. We provide flexibility and choice.

- Best in class EV Charging hardware supplier with manufacturer direct pricing.
- A nationwide design, engineering and installation footprint, managed through our proprietary cloud-based software platform to simplify the process and minimize the time and expense required to operationalize your on-site EV Charging Stations.
- Our proprietary charging and energy management software with decision support to manage fleet uptime and ensure predictable electric fueling costs.
- Flexible financing and terms: pay by the project, by the month, by the mile, or by the kWh.
- Our team's collective unsurpassed industry experience, installing more than 20K charge ports across North America and Europe.



Call today for a free consultation.

sales@inchargeus.com | inchargeus.com

833.772.4638 / 833.772.GOEV

Level 2

2020 POWERCHARGE Pro-Lightning



PowerCharge's new Pro-Lightning Series is a heavy-duty electric vehicle charger suitable for public, workplace, hospitality, and fleet use. The Pro-Lightning housing comes with an industry leading 10-year warranty on the housing and optional cable retractors. Electronics have a 3 year warranty, a 5 year warranty is available. "We have seen a substantial increase of electric vehicle charger installations in these verticals, so decided to build a competitively priced, premium unit to fill these needs", said Mike Moser, President.

Standard features include; commercial grade components including a robust aluminum housing with automotive-grade powder coat finish, NEMA 4 rated for outdoor use, optional cable retractors to keep cables off the ground, and a modular design for easy maintenance and servicing. The company's "Pro Link" unit is a networked charging station providing Point of Sale with credit card swipe, so no network membership is needed to use the charge station.

PowerCharge works with clients from the design stage through installation. They will help clients to secure funding, obtain permitting, signage, and will perform training and maintenance after the sale. PowerCharge also offers multiple backend software options and management services utilizing their team of dedicated product specialists.

The company sells a line of EVSE including Pro-Series and Energy-Series that complements the Pro-Lightning units.

ACQUISITION

MSRP **Upon Request**
Availability **2020**
Warranty **10yr housing, 3yr elec**

RATING

Volts **208-240V**
Amps **16A/24A/32A**
Watts **3.8kW-7.7kW**

WIRING

Hardwire **Yes**
Plug Type **Hardwired**
Breaker **20A/30A/40A**

CABLE

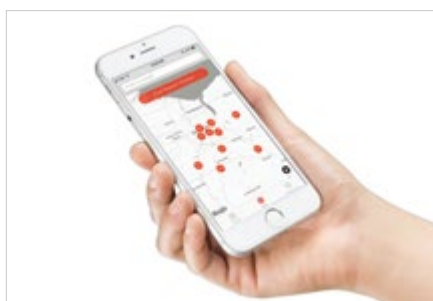
Connector **J1772**
Cord Length (ft) **18/24ft**

USER INTERFACE

Interface Type **N/A**
Communications **WiFi, LTE**
SW **PowerCharge app, dash**

DIMENSIONS

Dimensions **14.74"Wx13.43"Lx60"H**
Weight **--**
Enclosure **NEMA4**
Rating **Outdoor**
Temperature **-22F to +122F**





ACQUISITION

MSRP **Upon Request**
 Availability **2013-2020**
 Warranty **Variable**

RATING

Volts **208-240V**
 Amps **30A-80A**
 Watts **7.2kW-19.2kW**

WIRING

Hardwire **Yes**
 Plug Type **Hardwired**
 Breaker **40A-100A**

CABLE

Connector **J1772, Tesla**
 Cord Length (ft) **18-24 ft**

USER INTERFACE

Interface Type **RFID Card, QR**
 Communication **RFID, Mesh**
 Software **EverCharge Dash.**

DIMENSIONS

Dimensions **15.7"H x 13.8"W x 5"D**
 Weight **15.4 lbs**
 Enclosure **NEMA 3R**
 Rating **Indoor/Outdoor**
 Temperature **-22F to +122F**

2013-2020 EVERCHARGE EV Connector

EverCharge's EV Connector is a load-balancing charger designed for parking lots, multi-unit buildings and fleets. A J1772 coupler is standard. The unit can also be fitted with a Tesla coupler. It connects to a 208-240V, 40A-100A circuit and can output 7.2-19.2 kW. The EV Connector can be mounted to a wall, pedestal, or pole. It can be fitted with an 18 or 24 ft cord. Its built-in RFID reader affords secure user authentication without requiring external network access, ideal for parking structures and areas which do not have access to sufficient data signal. The unit can also perform authentication using a QR Code and mobile app. The Evercharge Dashboard provides analytics such as power consumption and charge time data and supports automated billing. The EV Connector is a rugged, full featured, all-in-one hardware and software solution. One of the unit's significant features is EverCharge's proprietary Smart Power technology. Because multiple standalone chargers can exceed electrical panel power limits, EverCharge's units employ dynamic load management. This allows EverCharge to install up to 10 times more chargers at a site compared with chargers that lack load management. EverCharge does not require a controller box. It employs mesh networking to allow multiple chargers to communicate with each other, lowering costs by eliminating the need for more expensive networking. EverCharge is a licensed contractor with a fleet of service vehicles. The company offers full service deployment, including site inspection, installation, and 24/7 customer service & support.



Level 2



2016-2020 EVBox BusinessLine

EVBox's BusinessLine is a Level 2 AC charger with a charge speed of 3.8 to 7.7kW. EVBox offers 16A and 32A options to accommodate locations with different amounts of available current. Its J1772 connector holsters on the front of the unit (Single) or on a pole holster attachment (Double). The unit can be outfitted with one or two ports and mounted to the wall or on a pole, and has a peripheral cable retractor system that can be added. Each cable can be 18 or 25 feet depending on the site requirements. The BusinessLine is vandal-proof, fire-proof, and weather-resistant for worry-free outdoor use. It is UL safety-certified and ENERGY STAR certified. The charger is lightweight at 35 pounds for the Single and 60 pounds for the Double, affording easy installation and maintenance. EVBox works with certified EVSE installers to ensure safe and fast installations at site locations. EVBox is OCPP 1.6 compliant and offers network support through top EV charging software providers that allows owners to track charging data and manage sessions from their computer or smartphone. The BusinessLine is a scalable technology that allows owners to connect up to 20 chargers to a single hub as EV charging demand increases. With EVBox's smart charging technology, BusinessLine intelligently distributes a site's available energy to enable multi-vehicle charging while avoiding over-capacity fees and expensive panel upgrades. With EVBox's smart charging features and network integrations, owners can monitor stations, control pricing, and remotely manage their entire charging network.

ACQUISITION

MSRP **\$1,795-\$4,640**
Availability **2016-2020**
Warranty **3-5 years**

RATING

Volts **208-240V**
Amps **16A, 32A**
Watts **3.8kW-7.7kW**

WIRING

Hardwire **Yes**
Plug Type **Hardwired**
Breaker **20A-40A**

CABLE

Connector **J1772**
Cord Length (ft) **18 ft, 25 ft**

USER INTERFACE

Interface Type **Manual**
Communications **OCPP**
Software **Multiple**

DIMENSIONS

Dimensions **23.6"H x 10"W x 8"D**
Weight **35 lbs, 60 lbs**
Enclosure **NEMA 3R**
Rating **Indoor/Outdoor**
Temperature **-22F to +130F**



Electric Car Guest Drive – Professional Edition –

Learn about EVs
Talk with EV Owners
Drive multiple EVs

*An educational and professional gathering
exclusively for property managers and
light-duty fleet managers*

TEST DRIVE A
TESLA MODEL 3



For locations and FREE registration:
ElectricCarGuestDrive.com
or call 619.335.7102

Also Available to Drive

Tesla Model S
Tesla Model X
Jaguar i-Pace

Audi e-tron
Mitsubishi Outlander PHEV
and others



Level 2



2020

CLIPPER CREEK HCS40R

The HCS-40 is ClipperCreek's best-selling Level 2 charger. It is a 32A unit with 7.7kW output power designed to be connected to a 208 or 240V, 40A circuit. The "R" is ClipperCreek's \$100 ruggedized upgrade of the HCS-40. The HCS-40R is engineered with a fully sealed, NEMA 4 enclosure for extreme weather conditions and can withstand temperatures as low as -22 degrees Fahrenheit and as high as 122 degrees Fahrenheit. The R also includes a rubber overmolded J1772 connector that is impact and crush resistant. The HCS-40R offers 25 feet of cord to easily reach the charge port of every vehicle no matter where it is located. The unit also features an integrated cable wrap to keep the cord tidy and a hard plastic holster to keep the J1772 connector protected. The charger and holster can be mounted to a wall or pedestal. The HCS-40R employs a simple design with no on/off switch to make charging intuitive for customers and save owners money with minimal standby power consumption. ClipperCreek's chargers are made in America and are ETL safety certified. Additional options include ChargeGuard Access Control to grant selective use privileges and Share2 Circuit sharing to add an additional port and have the unit share power when two vehicles are plugged in. The unit comes with a five-year warranty.

ACQUISITION

MSRP **\$665**
Availability **2020**
Warranty **5 years**

RATING

Volts **208-240V**
Amps **32A**
Watts **7.7kW**

WIRING

Hardwire **Yes**
Plug Type **Hardwired/Plugin**
Breaker **40A**

CABLE

Connector **J1172**
Cord Length (ft) **25 ft**

USER INTERFACE

Interface Type **Manual**
Communications **--**
Software **ChargeGuard Access Ctrl**

DIMENSIONS

Dimension **19.7"L x 8.9"W x 5.3"D**
Weight **13.5 lbs**
Enclosure **NEMA 4**
Rating **Indoor/Outdoor**
Temperature **-22F to +122F**





Introducing the Gen 3 Series

THE FASTEST, SAFEST AND MOST RELIABLE
CHARGING STATIONS

Delivering smart charging through open networks

32, 40, 48 & 80-amps

860-308-2054 | JuiceBarGen3.com

POWERING THE REVOLUTION®

In-Charge Energy

Installer / Integrator

BY CHRISTOPHER ALAN



PHOTO: IN-CHARGE

In-Charge Energy is a new installer/integrator founded by two long time industry veterans, Cameron Funk and Terry O'Day. CEO Funk was previously the Director of Business Development at ABM Industries and most recently served as CEO for innogy eMobility Solutions for a year and a half. COO O'Day served as Vice President for NRG Energy, later spun off as EVgo, and most recently as Chief Strategy Officer and EVP for innogy eMobility Solutions with similar tenure as Funk.

The two founded In-Charge Energy in October 2019 with the desire of accelerating electrification of the transportation industry by

providing a comprehensive scalable e-fleet solution.

In-Charge Energy hallmark is provisioning end-to-end, turnkey commercial EV infrastructure solutions. The company uses a cloud-based platform for digital site survey, real-time project



installation tracking, and service/maintenance post-installation.

The company customizes their solutions for the disparate needs of private and public commercial fleets, electric vehicle OEMs, ride-share operators, municipalities and commercial/residential facilities owners. The company counts trucking industry giant Ryder among its clients.

Other team members with significant industry experience include Sales VP Van Wilkins, another veteran of ABM e-mobility fleet infrastructure, and Kent Ellis, an ABM and AeroVironment alumni. AeroVironment was one of the original EV charging industry pioneers. Greg Callman, who serves on the company's board for investor Macquarie Group, was with Tesla for six years and prior to that was a commercialization advisor for the DOE's ARPA-E program.

The company provides services nationwide from their base of operations in Irvine, California.

Level 2



2020 SIEMENS VersiCharge AC Series

Siemens recently released the 3rd generation VersiCharge AC series charger building on over ten years of experience in the charging business. The new edition received a significant design refresh, which provides a modern look and feel when either wall or post mounted. In addition, it offers advanced communication capabilities, easy startup and interoperability with cloud or control systems. The configurable 2.8 kw -11.5 kw power feature allows the charger to conform to load or panel limits in applications like charger replacements or retrofit applications. Connecting directly to building management or control systems, such as Siemens Desigo CC and 3rd Party systems, has never been easier with the Modbus TCP & RTU protocols provided in the new VersiCharge units. Additional communication ability is provided with the Open OCPP protocol allowing secure back-end system connection with any open cloud service provider. The new VersiCharge Parent - Child architecture allows for one point of communications to a bank of chargers. The Child charger will support Wi-Fi, Ethernet and Serial communications, while the Parent adds on cellular, providing a totally integrated network with no external hardware. To ensure the industries highest accuracy energy measurement, the VersiCharge products include ANSI C12.20 metering. A new end user mobile app for the iPhone or Android is provided to allow easy startup, monitoring and control while the new design offers open payment options like RFID, and cloud-based services to manage your charging infrastructure.

ACQUISITION

MSRP **Upon Request**
Availability **2020**
Warranty **3 years**

RATING

Volts **208/240V**
Amps **40-48A**
Watts **2.8-11.5kW**

WIRING

Hardwire **Yes**
Plug Type **Hardware**
Breaker **50-60A**

CABLE

Connector **J1772**
Cord Length (ft) **20 ft**

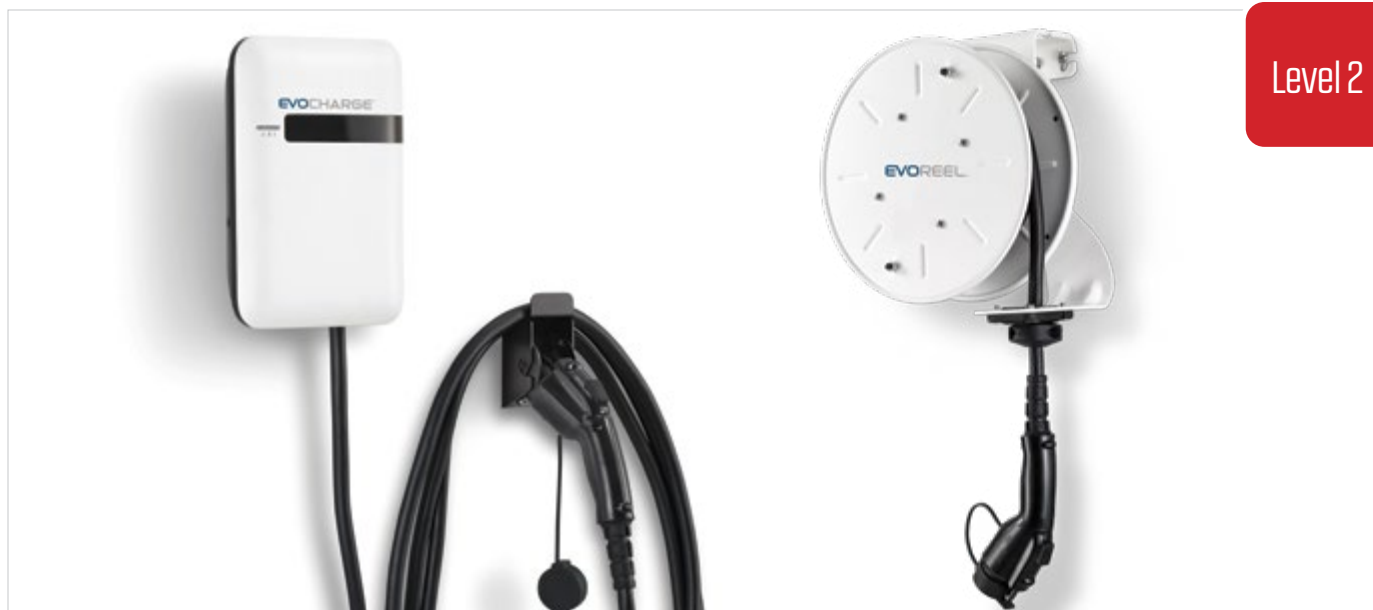
USER INTERFACE

Interface Type **Screen**
Comm **Eth, Wi-Fi, Modbus / LTE**
Software **OCPP 1.6, 2.0, App**

DIMENSIONS

Dimen..... **16.2"Hx7.09"Wx3.78"D**
Weight **17 lbs**
Enclosure **NEMA 4**
Rating **Indoor/Outdoor**
Temperature **-31F to +122F**



**ACQUISITION**

MSRP	\$479, \$679
Availability	Contact Mfg
Warranty	3 years

RATING

Volts	208/240VAC
Amps	32A
Watts	7.7kW

WIRING

Hardwire	HW or Plug
Plug Type	NEMA 6-50
Breaker	40A

CABLE

Connector	J1772
Cord Length (ft)	18-25 ft

USER INTERFACE

Interface Type	Networked
Communications	WiFi, OCPP
Software	App

DIMENSIONS

Dimension	11"H x 7.5"W x 3.2" D
Weight	14 lbs (18ft), 16 lbs (25ft)
Enclosure	NEMA 4
Rating	Indoor/Outdoor
Temperature	-40F to +122F

2012-2020

PHILLIPS & TEMRO

EVOCHARGE EVSE & iEVSE

The EVOCHARGE line is a trio of Level 2 chargers from Phillips & Temro industries. The chargers supply 32A of current and 7.7kW of power, which translates to about 25-35 miles of charge per hour depending on vehicle efficiency. The chargers' amperage can be adjusted from 16-32A to support multiple circuit ratings. The unit ships standard with an 18-foot cable and offers a 25-foot option. With the EVOREEL cable management system, you can fit the unit with either a 22ft or 30ft option.

The EVOCHARGE EVSE and iEVSE have a smooth rectangular case with dimensions smaller than a letter-size sheet of paper. The charging stations' slim 3.2-inch depth allows them to lay nearly flat against any surface. Installation is simple. A universal mounting bracket secures the charger to a wall, pedestal, or other structure. A mountable holster is used to store the charge port and wrap the cable. The chargers are NEMA 4 certified for outdoor use and UL listed.

EVOCHARGE chargers come in both networked and non-networked configurations. The standard EVOCHARGE EVSE is non-networked while the iEVSE can be connected to WiFi and OCPP networks to perform local load management and demand response to adjust electricity consumption. The iEVSE Plus adds an RFID reader for selective access granting and 4G-LTE cellular. To lower acquisition costs, Phillips & Temro's web site helps connect customers to information about federal, state, and utility incentive programs.



Level 2



2020 BTC POWER 70A

BTC Power's 70A charger is the highest amperage AC charger that the California-based company offers. It is a Level 2 charger requiring a 208/240V outlet and a 100A breaker. The 70A charger comes with a single port and a J1772 connector. It is rated at 16.8 kW. Each unit is equipped with a NEMA 3R weatherproof enclosure and a standard 25-foot cable. BTC Power offers an 18-foot retractable cable as an alternative. The 70A charger is an upright, pedestal-mounted unit.

The unit has a seven-inch color 800x480 LCD touch screen for intuitive user operation. The 70A charger has a built-in RFID reader to grant authorized users access. BTC Power offers an optional credit card reader and credit card scanner for access without network membership. The 70A charger offers optional 2.4 GHz Wi-Fi and a 4G modem. BTC Power produces a proprietary backend administrative software. The unit is OCPP 1.5 and 1.6 compliant, and can also use software from EVconnect, EVGateway or EVgo.

BTC Power also offers 30A/7.2-kW and 40A/9.6-kW single or dual port versions of the unit with lower electrical demands for those with power panel limitations.

BTC Power has announced the future availability of DC V2G capabilities from this chassis.



ACQUISITION

MSRP **Upon request**
Availability **2020**
Warranty **2 year parts**

RATING

Volts **208/240V**
Amps **70A**
Watts **16.8kW**

WIRING

Hardwire **Yes**
Plug Type **Hardwired**
Breaker **100A**

CABLE

Connector **J1772**
Cord Length (ft) **18 ft, 25 ft**

USER INTERFACE

Interface Type .. **Color Touch Scr**
Communications **WiFi / Cellular**
Software **OCPP**

DIMENSIONS

Dimensions **16" x 13" x 56.6"**
Weight **86lbs**
Enclosure **NEMA 3R**
Rating **Indoor/Outdoor**
Temperature **-22F to 140F**



ACQUISITION

MSRP	\$6,750
Availability	2013-2020
Warranty	2 years

RATING

Volts	110-240VAC
Amps	32A per circuit
Watts	77kW Total

WIRING

Hardwire	N/A
Plug Type	N/A
Breaker	40A per circuit

CABLE

Connector	N/A
Cord Length (ft)	N/A

USER INTERFACE

Interface Type	N/A
Communications	Cellular, Ethern.
Software	OCPP, Open ADR compl.

DIMENSIONS

Dimensions	N/A
Weight	N/A
Enclosure	N/A
Rating	N/A
Temperature	N/A

2013-2020 LIBERTY PLUGINS Hydra-R

The Hydra-R is a smart controller for EV charging stations offered by EVSE hardware and software developer Liberty Plugins, Inc. The Hydra-R links to low-cost, non-network EV charging stations to endow them with “smart charger” capabilities. The Hydra-R provides owners with charger information such as power consumption, usage, and revenue generation. The Hydra-R also affords remote access and control, which enables owners to adjust parameters such as station permissions and fee rates. The Hydra-R is compatible with all pre-existing RFID systems to allow companies to seamlessly integrate station access into their employees’ cards. Using the Hydra-R, owners can also set up charge-sharing to provide non-residents and non-employees with paid charger access. The Hydra-R is vehicle-to-grid (V2G) compatible. The Hydra-R controls up to ten EV chargers. Use of the Hydra-R to control multiple less expensive EVSE can save owners between 30 percent and 50 percent of the cost of more expensive full-featured standalone chargers.

Liberty Plugins, Inc offers a “Keypad” technology that issues one-time access codes to users. With the Keypad, guests such as hotel and Airbnb customers can pay to conveniently charge their vehicles on-site at available Keypad locations. Using the Keypad, owners can request the duration that individuals retain charger access. Liberty Plugins reports that the Keypad costs less than half that of fully networked EV chargers due to its simpler design and installation.



Level 2



2020 BLINK IQ 200

The Blink IQ 200 is a Level 2 EV charging station capable of supplying 12A-80A / 2.9kW-19.2 kW output. The charge stations provide up to 65 miles of range per hour of charge for vehicles capable of handling that much power.

Blink provides numerous mounting options. It can be installed on a wall, a Blink rectangle or triangle pedestal as a single or multiple units. The Blink pedestals can be customized with graphic wraps.

The IQ 200 has a 7" daylight readable color LCD touch screen on the front panel which will auto-dim when the unit is not in use. The screen displays authorization instructions, charging status and transaction details. Billing can be configured to accommodate time-based, kWh-based, or session-based fees. Payment can be made via RFID, and all major NFC credit cards.

The unit is capable of local load management. Through its Open Charge Point Protocol (OCPP) 1.6 support, and its smart load management software capabilities, its output is controllable to support utility demand response requests.

The IQ 200 supports over-the-air firmware management and updates, for easy system administration. The station can be operated on the Blink Network, giving EV drivers an easy way to find the station. Blink's smartphone app provides end-users with status updates and notifications.



ACQUISITION

MSRP **Upon request**
Availability **2020**
Warranty **--**

RATING

Volts **208/240V**
Amps **80A**
Watts **19.2 kW**

WIRING

Hardwire **Yes**
Plug Type **NA**
Breaker **15A-100A**

CABLE

Connector **J1772**
Cord Length (ft) **25 ft**

USER INTERFACE

Interface Type **Color LCD**
Communications .. **WiFi, Cellular**
Software **OCPP, OCPP 1.6J**

DIMENSIONS

Dimensions **14"Hx10.6"Wx5.2"D**
Weight **31 lbs**
Enclosure **NEMA Type 3R**
Rating **Indoor/Outdoor**
Temperature **-22F to +122**



Innovative and Economical Commercial Charging Solutions

From America's Most popular Charging Station Company

FAST: Many power levels available, up to 80A (19.2kW).

RUGGED: Designed and built for high usage fleet & commercial environments.

INNOVATIVE: Flexible load management interface for integration with existing building controls (or other intelligent management systems) or stand-alone circuit sharing for single and dual connector charging stations.

RELIABLE: Years of field experience, backed by ClipperCreek's best in class warranty and outstanding US based customer support.

ADDITIONAL OPTIONS AVAILABLE: **Cosmos**, load management interface; **ChargeGuard**, simple low cost access control; **Share2**, circuit sharing; and **Ruggedized** options with a 5 year warranty.



ProMount Duo Ruggedized Pedestal with HCS-40R



HCS-D40 Dual EVSE
LEVEL 2 | 240 Volt | 32A



HCS-40 with ChargeGuard®

CLIPPERCREEK

RELIABLE. POWERFUL. MADE IN AMERICA.

Learn more call

877-694-4194

ClipperCreek.com

Durst Energy Solutions

EVSE Solution Provider

BY CHRISTOPHER ALAN

Durst Energy Solutions provides consulting, installation, maintenance and repair services for electric vehicle chargers. The company is located in the Portland metro area and holds contractor licenses in Oregon and Washington.

Company founder Rick Durst is an electric vehicle specialist with over 20 years experience in the electric transportation industry. He was a project manager at Portland General Electric and was involved in PGE's Electric Avenue project, which provides on-street charging from a mix of DC Quick chargers and Level 2 chargers.

Durst Energy Solutions has installed 16 DC Quick Charge Stations and more than 200 Level 2 stations in the Northwest. They have performed hundreds of repairs on numerous EVSE brands.

In addition to installation and repair, Durst provides consulting services to develop project ideas, support business plans and create presentations. The company can assist in access to available incentives, discounts or rebates for projects.



PHOTO: DURST ENERGY SOLUTIONS

Level 2



2019-2020 WEBASTO TurboDX

TurboDX is a non-networked Level 2 charger available in two different versions: with power output of either 3.8 or 7.2kW. It has a slim vertical design, which is helpful for properties with tight installation placement. TurboDX can be mounted to a wall or pedestal. For commercial applications, TurboDX can accommodate a dual, triple, or quad installation. The TurboDX is a “plug-and-charge” system without authentication by app or card reader. It has LED indicators which display charging status. The unit is available with 15-foot or 25-foot cable options.

The TurboDX has potted electronics, which protects the sensitive internal components, reducing the risk of thermal shock, thermal dissipation, and static shock. The device has internal monitoring circuitry to detect heat and and leakage faults.

Webasto is a Tier 1 automotive supplier and TurboDX is used by major automakers. TurboDX is UL and cUL certified and has a NEMA 4 rating for water resistance & UL 94 5VA for flammability.

ACQUISITION

MSRP **Upon Request**
Availability **2019-2020**
Warranty **3 years**

RATING

Volts **208-240V**
Amps **16A or 32A**
Watts **3.8 or 7.7kW**

WIRING

Hardwire **Yes**
Plug Type **Hardwire**
Breaker **20A or 40A**

CABLE

Connector **J1772**
Cord Length (ft) **15 ft, 25 ft**

USER INTERFACE

Interface Type **Manual**
Communications **--**
Software **--**

DIMENSIONS

Dimensions ... **12"H x 5"W x 3.5"D**
Weight **7.75 - 12 lbs**
Enclosure **IP66**
Rating **Indoor/Outdoor**
Temperature **-40F to +131F**





ACQUISITION

MSRP	\$1,399
Availability	2020
Warranty	3 years

RATING

Volts	208-240V
Amps	40A
Watts	9.6kW

WIRING

Hardwire	Yes
Plug Type	Hardwire or 240V
Breaker	40A-50A

CABLE

Connector	J1772
Cord Length (ft)	25 ft

USER INTERFACE

Interface Type	Manual, QR code
Communications	WiFi
Software	JuiceNet, mobile app

DIMENSIONS

Dimension	18.5"H x 6.8"W x 5.8"D
Weight	15 lbs
Enclosure	NEMA 4X
Rating	Indoor/Outdoor
Temperature	--

2020 ENEL X Juice Box Pro44

Although well known as a residential charger, the JuiceBox Pro line functions as a commercial charger. Enel X offers the JuiceBox Pro in 32A and 40A configurations which output 7.7kW and 9.6kW of power, respectively. Pro chargers are Level 2 stations that can be plugged into a 240V outlet or hardwired depending on the owner's preference. Wall and pedestal mounts are available. The JuiceBox Pro's design is simple and attractive. Dynamic LED lights display power, WiFi connectivity, and charge status. The Pro is equipped with a 25-foot cable and a J1772 connector. The charger's enclosure is NEMA 4X certified to protect against harsh weather conditions and dust. Enel X provides a three-year manufacturer's warranty on the unit.

Enel X offers a software service called JuiceNet at two tiers: Business Edition and Enterprise Edition. For \$60/year per unit, the former provides owners with station information and use data and allows them to set station availability. For \$120 a year per unit, the latter adds on features such as personalized privilege-granting capabilities, time-of-use pricing, and multi-property support that allows owners to coordinate stations at multiple locations.

Enel X has a mobile app that lets users monitor their charging status and notifies them when their charging session is complete. JuiceBox Pro chargers are made in America.





The **Most Affordable** Networked Charging Solution for Multi-Family & Commercial Properties

⚡ 60% lower cost than other charging solutions

⚡ Customize your charging experience with our flexible software

Contact sales today
970.631.5121
william@EVmatch.com



Recover electricity costs with in-app payment processing



Hassle-free scheduling and reservations for efficient sharing



Access codes to manage chargers easily with options to offer public charging



EV Charging Pros

Independent Advice on EV Charging Stations

BY CHRISTOPHER ALAN

EV Charging Pros is a consulting service located in Marin County California which helps commercial properties, workplaces and multifamily organizations to plan and deploy EV charging infrastructure. EVCP provides objective advice independent of any EV charging hardware vendor. Guidance is customized for each charging site based on the site specific electrical

issues, business model and use cases. EVCP provides insights into charging infrastructure to meet planning regulations and long-term demand.

Founder John Kalb has provided EV charging assessment services to over 200 properties since 2011.

He published the e-book “Seven Steps to EV Charging,” available on Amazon, which assists

organizations in planning for EV charging.

Kalb is a speaker for organizations including BOMA, National Multifamily Housing Council, California Apartment Association, and the National Parking Association.



Low Power EV Charging

Plugzio Charging Solutions

BY CHRISTOPHER ALAN

Low Power EV Charging is a startup that offers a 120V EV charging solution called Plugzio. It operates on a 15A or 20A circuit. The outlet contains circuitry which can provide access control and monitor energy use. Software the company provides allows site

managers to bill for electricity use. The solution is intended primarily for apartments and parking garages and other locations where cars charge for several hours. Company founder Steve Atwater has significant experience devising energy efficient electrical and

technology solutions through four businesses he founded in the technology and real estate industries.



Portable



ACQUISITION

MSRP **Upon Request**
 Availability **2015-2020**
 Warranty **3 years**

RATING

Volts **240VAC**
 Amps **32A**
 Watts **11kW**

WIRING

Hardwire **No**
 Plug Type **J1772**
 Breaker **--**

CABLE

Connector **J1772**
 Cord Length (ft) **18 ft**

USER INTERFACE

Interface Type **Touchscreen**
 Communications **WiFi, LTE**
 Software **FreeWire AMP, App**

DIMENSIONS

Dimensions **32.3"Wx52.3"Lx41.7"H**
 Weight **1,860 lbs**
 Enclosure **IP24**
 Rating **Indoor/Outdoor**
 Temperature **32F to 122F**

2015-2020

FREEWIRE TECHNOLOGIES Mobi EV Charger

The Mobi EV Charger is a portable Level 2 charger from FreeWire. It has 32A / 11kW power output and is capable of refueling EVs at a rate of 30 miles per hour of charge. The Mobi EV Charger is a dual-port charger that uses J1772 connectors. Two sets of storage hooks provide a means of keeping cables tidy. The Mobi EV Charger is powered by a rechargeable 80kWh on-board battery pack that can be recharged to full capacity in 12 hours. Because the Mobi EV Charger does not have to be plugged into the wall to function, it can be transported to any location—for example, to any spot in a parking garage. The unit sits on wheels driven by high-torque motors. A joystick controller located at the top of the unit is used to maneuver the Mobi EV Charger to its desired location. A seven-inch ruggedized center touchscreen displays data such as energy usage and battery life. The Mobi EV Charger is a standalone charger that requires no additional fixed infrastructure when it is servicing a vehicle.

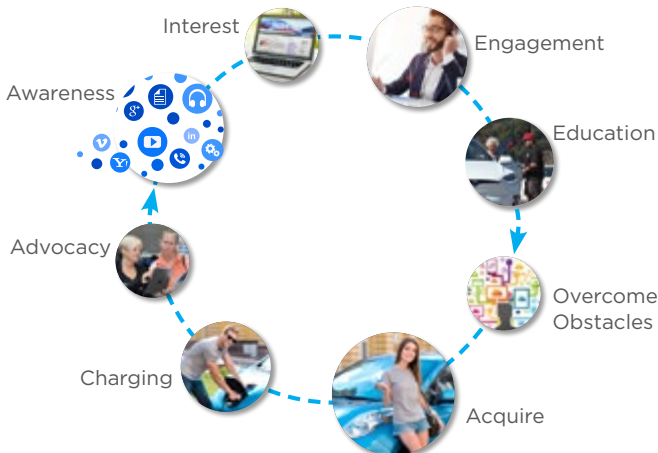
The Mobi EV Charger is supported by an Intelligent Energy Management platform. It provides integrated software for easy operation, remote data-checking for convenient monitoring, firmware updates, and a built-in energy management platform. FreeWire offers a free charging app for drivers who charge using a Mobi EV Charger.



EV Navigator

A Comprehensive EV Program for Utilities

Promoting Electric Vehicles from Awareness through Ownership to Advocacy.



The Journey

EV Navigator is a framework for organizing educational resources — articles, applications, documents and activities people need to understand their electric transportation options and overcome any obstacles on their journey to EV ownership.

EV Purchase Lifecycle

EV Navigator assists prospective EV drivers to navigate the journey from EV awareness to EV advocate with a step-by-step process.



Tracking Progress

EV Navigator lets users track their progress in learning about EVs and plan their next steps. A visual dashboard with tiles that change colors as topics are finished, helps users see which tasks are complete.



Sales Funnel Analytics

EV Navigator uses sales funnel analytics to allow EV Program managers to report to senior management and provide reliable forecasts to planners.

Management Reports

The system provides reports for each phase of the journey, giving management the tools needed to optimize their EV Outreach Programs.

EV NAVIGATOR Sponsor Dashboard

Stage	Total	Last Month	Month to Date	MTD Trend	Goal	Goal Trend	% of Goal (last month)
Awareness	100,000	10,000	5,000	↑	8,000	↑	125%
Interest	10,000	1,000	500	↑	800	↑	125%
Engage	2,000	200	100	↑	160	↑	125%
Learn about EVs	500	50	25	↑	40	↑	125%
Overcome Obstacles	50	4	2	↑	10	↑	40%
Buy an EV	100	10	5	↑	8	↑	125%
Learn about Charging	80	8	4	↑	10	↑	80%
Socialize with Peers	20	4	1	↑	4	↑	50%



Google Analytics Integration

EV Navigator is fully integrated with Google Analytics. Automatically survey users to evaluate the effectiveness of the EV Program.

EV Navigator is an online, interactive app that guides prospective EV drivers on the path to ownership. From initial awareness through ownership, operation and advocacy.

Call for more information

619-335-7102

sales@electric-car-insider.com



2012-2020

EV CONNECT Software Platform

EV Connect provides a cloud-based platform for managing EV charging stations. The software is open-standard and can be used with any compatible EVSE hardware. With the platform, owners can monitor, manage, and maintain thousands of chargers from a single browser-based control panel. The platform offers a number of capabilities that help optimize an EV charging site's operations. Owners can use station diagnostics to monitor station performance in real time. They can also customize alerts to be notified when a charger experiences a fault, loss of communication, or other malfunctions. The platform includes load balancing technology to prevent overdraw and ensure power is consumed in the most cost-effective manner. The platform allows owners to set their own station parameters. Charging access can be restricted to the owner's requirements. Owners can also select from a number of different pricing schemes, for instance flat-rate or metered fees. EV Connect offers a charging network service called EV Cloud. The system employs data architecture and advanced management and analytics capabilities to ensure smooth charging site operation. EV Cloud is available in three variations: Pioneer (private-label), Foundation (APIs and administrative tools), and Roam (expands access to thousands of stations). EV Connect also offers planning, installation, and maintenance services including assessing infrastructure needs, identifying and sourcing certified station hardware, and deploying and testing stations. EV Connect offers 24/7 support to drivers and owners.

ACQUISITION

MSRP--
Availability **2012-2020**

OPERATING SYSTEMS

IOS **User**
Android **User**
MacOS--
Windows--

USER INTERFACE

Interface Type **App**
Communications **OCCP, OCPI**
Software **EV Cloud**



Turnkey Solutions for your EV charging station needs



Design



Hardware



Software



Installation



Maintenance

Expand your current EV charging system by installing 3 - 4 times the number of stations with our patented load management – without upgrading your electrical infrastructure.

PowerFlex specializes in the California market and has deployed more than 2,000 stations at over 75 sites throughout the state.

Contact us today and find out how we can upgrade your existing stations or design a system from the ground up.

Let's talk **energy.**

info@powerflex.com
www.powerflex.com



Level 2



2012-2020 TESLA Wall Connector

The Tesla Wall Connector is now in its third generation. The new model has an attractive tempered white glass faceplate. It is configurable to deliver between 12 to 44 miles of range per hour of charge depending on the capacity of the circuit it is connected to.

One of the most significant changes in the Gen 3 edition is Wi-Fi connectivity. The connection can be used to access usage data, and will allow the unit to automatically receive firmware updates. New software features and functionality can be pushed to the units.

The cable, previously available in 24ft length, is now 18ft. For most installations, that's plenty, but sometimes longer charge cables come in handy. The unit used to be available with a NEMA 14-50 plug so that it could be plugged into a 240v outlet. The new Gen 3 unit is only available in hardwire configuration, with wiring entry options from the top, bottom and rear. The device can be configured by the installer, who can limit the power level to match a circuit limit.

Tesla says a future over-the-air firmware update will enable up to 16 Wall Connectors to be linked together to share power. The power sharing feature will allow Wall Connectors installed at the same site to intelligently share the site's total available power via unit-to-unit Wi-Fi. This will minimize the need for residential and commercial applications to have electrical panel upgrades for concurrent multi-vehicle charging.



ACQUISITION

MSRP	\$500
Availability	2012-2020
Warranty	1 year

RATING

Volts	208/240V
Amps	12-48A
Watts	2.8kW -11.5kW

WIRING

Hardwire	Yes
Plug Type	NA
Breaker	15A-60A

CABLE

Connector	Tesla UMC
Cord Length (ft)	8ft-18 ft

USER INTERFACE

Interface Type	App, LEDs
Communications	WiFi
Software	Tesla

DIMENSIONS

Dims.....	9.8"Hx4.7"Wx2.0"D
Weight	10 lbs
Enclosure	3R
Rating	Indoor/Outdoor
Temperature	-22F to +122F

EV Educational Pillars

Displays for Electric Vehicle Exhibitions and Educational Events

Get answers to the most common EV questions, including:

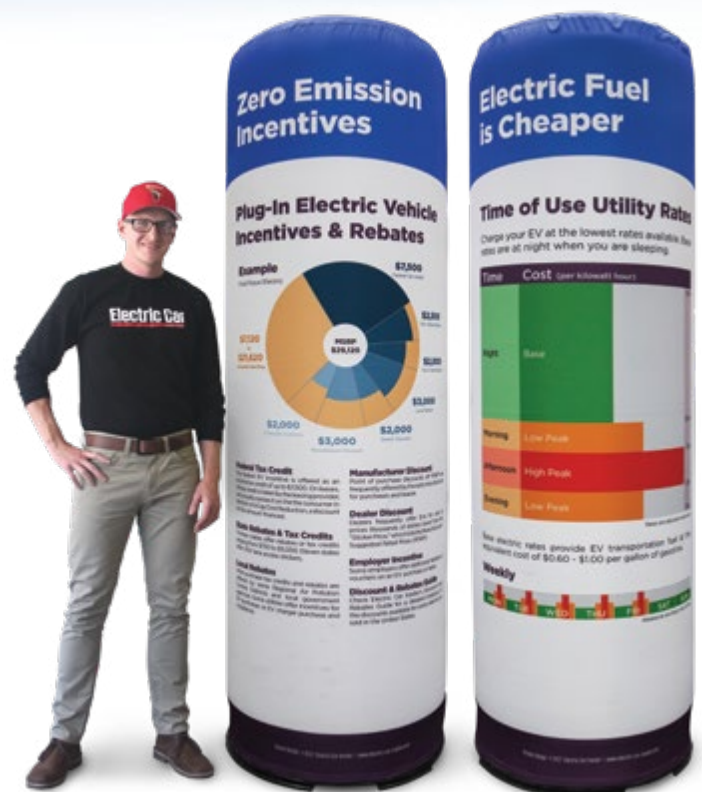
- How do I charge my truck?
- How far can electric trucks drive?
- What incentives and rebates are available?
- Are electric trucks really cheaper to operate?
- How green are electric trucks?

Set up throughout an event space:

- Provide educational exhibits at intervals along the walking loop.
- Create consistent visual appeal throughout the exhibit area.
- When displayed together, the ten exhibits provide a complete introductory knowledge to owning and driving electric vehicles.

Fully customizable with your logo, local pricing data and other information.

Call us for more information and pricing



Level 2



2015-2020

TELLUS POWER Level 2

Tellus Power Inc's Level 2 AC charging station is offered with either a single port or dual ports. The Level 2 charger is a 30A unit with a 7.2kW max power output. The charger requires a 240V outlet to operate. Each port uses a J1772 connector and an 18-foot cable.

Tellus Power's Level 2 charging station has a slim, vertical design. The dual model stacks its port holsters. The charger's housing is made of aluminum while its head is made of polycarbonate plastic. Its enclosure is NEMA 3R certified for outdoor use. At the top of the unit is a backlit soft-touch numeric keypad and 3.5-inch, non-reflective LCD screen for operation during the day or night. The charger includes an active, multi-standard RFID reader to grant access privileges.

Tellus Power's Level 2 AC charging station uses the OCPP interface for charger-network communication. Its network monitors and reports EV charge station data and allows owners to set pricing, rates, and charge duration remotely. Tellus Power's chargers are manufactured in the US.

ACQUISITION

MSRP	\$2,899
Availability	2015-2020
Warranty	1 year

RATING

Volts	208-240V
Amps	30A
Watts	7.2kW

WIRING

Hardwire	Yes
Plug Type	Hardwired
Breaker	40A

CABLE

Connector	J1772
Cord Length (ft)	18 ft

USER INTERFACE

Interface Type	Screen
Communication	Ethernet, Cellular
Software	Tellus Netw., OCPP

DIMENSIONS

Dimensions	54, 70" H x 7" W
Weight	30 lbs, 73 lbs
Enclosure	NEMA 3R
Rating	Indoor/Outdoor
Temperature	-30F to +130F



**ACQUISITION**

MSRP	\$8,000-\$12,000
Availability	2013-2020
Warranty	1-5 years

RATING

Volts	240VAC
Amps	16A, 24A, 30A
Watts	3.8, 5.8, 7.2kW

WIRING

Hardwire	Yes
Plug Type	Hardwired
Breaker	20A-40A

CABLE

Connector	J1772
Cord Length (ft)	18 ft, 23 ft

USER INTERFACE

Interface Type	LCD display
Communications ...	WiFi, 4G LTE
Software ...	CP Cloud, CP Assure

DIMENSIONS

Dimensions	6 ft x 13 in
Weight	Varies by model
Enclosure	NEMA 3R
Rating	Indoor/Outdoor
Temperature	-40F to 122F

2013 - 2020

CHARGEPOINT

CT4000

ChargePoint's CT4000 is a Level 2 networked commercial charging station available in single and dual port options. It can be configured to support charging rates from 3.8kW to 7.2 kW. The CT4000 is designed for indoor and outdoor use. It can be mounted to a bollard or the wall. ChargePoint offers 6- and 8-foot models with 18 and 23-foot self-retracting cables, respectively. The CT4000 contains branding areas for owners to advertise their businesses. The CT4000's center features a 5.7-inch, full-motion color screen with a touch-button interface that is operable in all weather conditions and with gloves. Owners can display custom images and videos on the screen. If owners are in need of more charging spots, they can upgrade from a single to a dual port unit without the need for additional electrical services thanks to ChargePoint's intelligent power management. The CT4000 is UL and ENERGY STAR® certified efficient, which saves owners money on their utility bill. Software updates can be conveniently completed over the air.

ChargePoint assists owners from start to finish, supplying site-planning, installation, maintenance, diagnostics, and repair services. It also provides a cloud service that gives owners access to valuable data such as revenue generation and energy consumption and the ability to set custom Time of Day (TOD) pricing. ChargePoint also offers 24/7 customer service phone support. ChargePoint's popular mobile app includes a map that directs drivers to charging stations on the ChargePoint network.



Level 2



2010-2020

Efacec Public Charger

Efacec's Public Charging Station is a Level 2 AC charging station. It can be equipped with one or two outputs, each supplying a 30A current and 7.2kW of power. If an owner selects the two-output option, the unit will allow for simultaneous two-vehicle charging. Owners can mount the Public Charging Station to a pedestal or the wall. The unit can be outfitted with custom graphics, logos, and colors. Its rugged aluminum enclosure enables weatherproof outdoor use.

The Public Charging Station features a TFT monochromatic touch screen. A color screen is optional. The unit can be outfitted with Radio Frequency Identification (RFID) for secure access. The Public Charging Station has built-in 3G, LAN and Wi-Fi communications and is integratable into larger networks via OCPP or proprietary protocol using a master-slave setup. Applications include shopping centers, parking lots, highway rest stops and commercial fleets.

ACQUISITION

MSRP **\$4,920**
Availability **2010-2020**
Warranty **2 years**

RATING

Volts **208/240VAC**
Amps **16A-32A**
Watts **3.7-7.4kW**

WIRING

Hardwire **Yes**
Plug Type **Hardwired**
Breaker **20A-40A**

CABLE

Connector **J1772**
Cord Length (ft) **15 ft**

USER INTERFACE

Interface Type **Touch Screen**
Communications **4G**
Software **OCPP**

DIMENSIONS

Dimensions . **57"H x 15"W x 11"D**
Weight **66 lbs**
Enclosure **NEMA 3R**
Rating **Indoor/Outdoor**
Temperature **-31F to +122F**




BEAM


EnvisionSolar.com | GoSolar@EnvisionSolar.com

EV ARC™ 2020

The world's only moveable, off-grid
100% sustainable EV charging station.

- Deploy in minutes instead of months;
no construction, no permits, no utility bill
- Charge day, night and during inclement weather
- Generate 25% more energy with patented sun-tracking technology
- Power EVs during grid outages and emergencies
- Drive on sunshine with emissions-free charging

Call our team

858-799-4583

National Car Charging

Retailer / Installer / Integrator

BY CHRISTOPHER ALAN

National Car Charging is one of the nation's leading providers of EV charging equipment. The company offers a diverse lineup of consulting and station management services. The company sells and installs chargers from EVBox, Chargepoint, Siemens, Efacec, Webasto and innogy.

National Car Charging CEO Jim Burness says most projects begin with a Strategy & Planning session. The company's planning and installation experts work with customers to find the right strategy for addressing the customer and site's specific needs and specify the equipment and

electrical solutions to complete the project.

NCC has placed hundreds of large and small commercial and residential stations across the country.

They carry a wide array of brands and charging solutions, from the most basic charging station to the top-of-the-line smart networked station.

The company maintains a network of licensed, certified professionals across the country to ensure that the stations are installed to code and meet all customer specifications. Through NCC's Station Management program, site owners can own and

control the stations, and rely on NCC to monitor, manage and maintain the gear.

The company provides services throughout all 50 states from its headquarters in Denver CO. National Car Charging is an approved supplier for the EV Charge Network Program from PG&E in California. The company also has a subsidiary called Aloha Charge in Honolulu, Hawaii.

Burness spent nearly two decades in the automotive industry before starting his career in clean energy including stints with J.D. Power and Associates, American Honda, and Microsoft CarPoint.

Level 2



2011-2020

SEMACONNECT Series 6 EV Charger

The Series 6 is an ENERGY STAR certified Level 2 charging station designed for commercial applications such as workplaces, multi-family dwellings, retail, hospitality, municipalities, and fleets. It delivers 7.2kW of power through an 18-foot cable and a J1772 connector. The Series 6 has a modern, space-saving design. Its silver aluminum enclosure is NEMA 3R certified for outdoor use. Interactive LED lights at the top of the unit indicate charger status; blue means available, green means charging, and red means a ground fault was detected. Users operate the charger using a backlit LCD screen. The Series 6 comes in single and dual pedestal- and wall-mount configurations. An optional pulley-based self-retracting cable management system is available.

The Series 6 is wirelessly networked, which allows owners to remotely program and monitor the charger. Owners can set duration-based, time-of-use, or kWh pricing and restrict access to members or permit access to the public. The SemaConnect network generates reports about metrics such as utilization rates, energy consumption, and revenue generation. Drivers can access the charger using the SemaConnect website, app, phone number, RFID reader, or PlugShare and ChargeHub apps. With the SemaConnect app, drivers can find stations, check availability and pricing in advance and monitor their EV's charge progress once it's plugged in. SemaConnect is the hardware and software provider.

ACQUISITION

MSRP **Upon Request**
Availability **2011-2020**
Warranty **1 year**

RATING

Volts **208-240V**
Amps **30A**
Watts **7.2kW**

WIRING

Hardwire **Yes**
Plug Type **Hardwire**
Breaker **40A**

CABLE

Connector **J1772**
Cord Length (ft) **18 ft**

USER INTERFACE

Interface Type **Screen**
Communications .. **WiFi, Cellular**
Software .. **SC, OCPP, ADR, Apps**

DIMENSIONS

Dimensions **18"H x 6"W x 6"D**
Weight **35 lbs**
Enclosure **NEMA 3R**
Rating **Indoor/Outdoor**
Temperature **-22F to +122F**





Full-Service Provider of Electric Vehicle
Charging Infrastructure

LilyPad EV is a highly experienced partner
you can trust for your EV charging project

EV Charging solutions for every type of business including:
Fleets | Workplace | Retail | Multi-Family Units | Highway | Governments



DC Fast
Charging



Fleet
Charging



Commercial and
Fleet Charging

CHARGEPOINT
PREMIER
PARTNER

Expert in electric utility EV charging build-outs and rebate programs

discounted purchasing available

Serving the entire US

We have deployed EV charging solutions in over 2/3 of US States since 2010
Our projects have ranged from a single station to over 1000 stations

Keith Anderson
VP Business
Development



Larry Kinder
Founder
and CEO



913-747-6956

866-525-9723

hello@lilypadev.com

www.lilypadev.com

turnkey service you can trust

Level 2

2020 EVBOX Iqon



The EVBox Iqon is a tall monolith style commercial EVSE with attractive modern styling. The distinctive embedded color-changing LED glow strips and rings make it easy for drivers to find in the dark or inclement weather. The built-in cable retractors provide unattended cable management. Auto-locking coupler holsters keep the cables secure by restricting access to authorized users via RFID or QR code. The site administrator can set station access for only employees or make it available to the public. You can bill users based on kWh rates, time of use, or set it up for free access.

The Iqon's bright, 8" touchscreen interface is sunlight readable. You can select up to four languages for customers to use when operating the touchscreen.

You may connect up to 20 ports in a Hub/Satellite configuration. EVBox's smart charging features help to maximize the unit's energy efficiency. Load balancing can evenly distribute the energy. Smart queueing ensures multiple sessions charge without exceeding panel capacity. Smart scheduling keeps energy usage low during peak demand times. Demand response can communicate with the electrical grid and increase or reduce output to match grid energy availability. Iqon is OCPP compliant and integrated with multiple EV charging network options, allowing for easy management of multiple charging stations, as well as remote maintenance and upgrades. Administrative software dashboards allow you to monitor energy consumption, adjust user billing rates, and schedule curtailment of output during peak usage times.

ACQUISITION

MSRP	\$5,795
Availability	2020
Warranty	3-5 years

RATING

Volts	208-240V
Amps	30A
Watts	7.2kW

WIRING

Hardwire	Yes
Plug Type	Hardwired
Breaker	40A

CABLE

Connector	J1772
Cord Length (ft)	18 ft

USER INTERFACE

Interface Type ..	LCD touch, LED
Comm .	4G LTE, WiFi, Bluetooth
Software	Multiple

DIMENSIONS

Dim	16.2"Wx74.5"Hx11.5"D
Weight	176 lbs
Enclosure	IP54/IK10/UL 50E (3R)
Rating	Indoor/Outdoor
Temperature	-22°F to 113°F



Fast
Charge



ACQUISITION

MSRP **Upon request**
Availability **2020**
Warranty **2 years**

RATING

Volts **150-920VDC**
Amps **60A**
Watts **24kW**

WIRING

Hardwire **Yes**
Plug Type **Hardwired**
Breaker **40A, 125A**

CABLE

Connector **CCS, CHAdeMO**
Cord Length (ft) **12 ft, 23 ft**

USER INTERFACE

Interface Type **Screen**
Communications **GSM, Ethernet**
Software **ABB Ability, OCPP**

DIMENSIONS

Dimensions **30" x 19" x 11.8"**
Weight **132.7 lbs**
Enclosure **IP54/NEMA 3R**
Rating **Indoor/Outdoor**
Temperature **-31F to +131F**

2020

ABB Terra DC Wallbox

As the name suggests, ABB's Terra DC Wallbox is a wall-mounted fast charger, although it also has a pedestal mount option. The Terra DC Wallbox offers an intermediate charging solution between Level 2 AC and ultra-fast DC chargers. It allows a charging site to increase the number of vehicles it can service in a day by recharging vehicles at a faster rate and supplying high-voltage charging for commercial EVs with larger batteries. The Terra DC Wallbox can be outfitted with a single port or dual ports and supports CCS and CHAdeMO protocols. The charger indicates refueling progress and contains help menus in multiple languages to clarify operation instructions. These features are displayed on a seven-inch color touchscreen mounted on the front of the unit. The touchscreen is backlit to permit operation during the day and at night. The Terra DC Wallbox holds an IP54/NEMA 3R weatherproof rating for indoor or outdoor use.

The Terra DC Wallbox offers ABB Ability Connected Services to allow owners manage their charger remotely. Owners can set RFID authentication, use OCPP for payment, data and energy management, over-the-air updates, and upgrades. Optional features include on-screen PIN code authorization and custom branding wraps. The Terra DC Wallbox is well suited for retail and entertainment complexes, workplaces, hotels, parking garages, dealerships, and commercial fleets.



Fast
Charge

2020 TRITIUM RT50



Tritium's RT50 50kW DC fast charger is a slim, single-cabinet model that has a tapered housing, giving it a small footprint. This reduced size base makes it easy to install in locations where space is at a premium, like busy shopping center parking lots. It offers both CHAdeMo and CCS (Type 1 or 2) charge couplers, so can service any EV with fast charging ports.

The RT50 has a wide operating temperature range of -31 to +122 degrees F, and the ability to be sited in almost any location and climate. The stable operating temperature reduces expansion and contraction wear on components, extending the equipment's service life. The cabinet offers ingress protection of IP65, Nema 3R.

The broad flat surfaces of the charger cabinet can be customized in both front and rear with decals, which can be customized with your company logos, colors and messages, offering a branding, communication and potential advertising income opportunity for site owners.

The unit supports OCPP, so can be managed with your choice of charging management software.

The unit supports the addition of an optional credit card reader for operation by EV drivers without network access cards.

Tritium also offers stations with charging power of 175 kW.



ACQUISITION

MSRP **Upon request**
Availability **2013-2020**
Warranty **2 years**

RATING

Volts **380-480VAC**
Amps **100 A**
Watts **50kW**

WIRING

Hardwire **Yes**
Plug Type **Hardwire**
Breaker **125A**

CABLE

Connector **CSS, CHAdeMO**
Cord Length (ft) **12 ft**

USER INTERFACE

Interface Type **RFID**
Communications **4G, Gb Eth**
Software **OCPP 1.5 and 1.6J**

DIMENSIONS

Dimensions **6'7"Hx2'6"Wx1'1"D**
Weight **363 lbs**
Enclosure **NEMA 3R**
Rating **IP65**
Temperature **-31F to +122F**

Fast
Charge



ACQUISITION

MSRP **\$43,250**
Availability **2020**
Warranty **3-5 years**

RATING

Volts **500V**
Amps **200A**
Watts **100kW**

WIRING

Hardwire **Yes**
Plug Type **Hardwire**
Breaker **250A**

CABLE

Connector **CCS, CHAdeMO**
Cord Length (ft) **14 ft**

USER INTERFACE

Interface Type **LCD, LED**
Communications **4G/LTE**
Software **Multiple**

DIMENSIONS

Dims **39.2"Wx86.1"Hx36.0"D**
Weight **2,094 lbs**
Enclosure .. **IP54/IK10/NEMA 3R**
Rating **Outdoor**
Temperature **-20F to +125F**

2020 EVBOX Troniq 100

The EVBox Troniq 100 is a DC Fast Charging station with output of up to 100 kW. It has a floor-mounted single-box standalone architecture. It supports both CCS1 at 200A and CHAdeMO at 125A or 200A service. The cabinet is fitted with dual auto-retractable charging cables. The cables can reach over 14 feet to service charge ports in any location on a vehicle. The unit is ADA-compliant and wheelchair accessible. Bright LED top lights provide a beacon for drivers looking for the charger.

User interface is provided by a 7" anti-glare color LCD touchscreen and multi-color LED status indicator lights to alert the user of charge status. The screen supports multi-language options. Charging sessions are activated using an RFID card or an app on a mobile device with Near-Field-Communication (NFC). You can attach a credit card terminal to the Troniq 100.

Network connectivity is provided by 4G LTE service. The Troniq supports load balancing and prioritization strategies to optimize the charging time of every session. For example, you can allow charging sessions to be prioritized by premium users, the state of an EV's battery, the arrival time and other parameters.

Administrative access allows you to configure the Troniq 100 station to your preferences, such as setting pricing, user access groups, or limits on energy consumption. Troniq uses Open Charge Point Protocol (OCPP) compliant firmware, so you can choose any OCPP administration software provider.





PHOTO: TESLA MOTORS

Mobile EVSE Classroom

Take a close look at the EV charging gear your site needs

BY CHRISTOPHER ALAN

Electric Car Insider will deploy a mobile classroom – towed by a Cybertruck – throughout the US in 2021. Visitors to the event will be able to drive the Cybertruck, Rivian R1T Truck and other new electric vehicles at the Electric Car Guest Drive Pro Edition.

A Tesla Cybertruck appears to be the perfect tow vehicle for a mobile EV Charger classroom. With its 100kWh+ battery, the Cybertruck has enough energy storage capacity to run the classroom air conditioning or electric heater all day long without needing to connect to “shore power.”

Tesla CEO Elon Musk hinted that the Cybertruck would have a high-power outlet even before the unveiling, tweeting:

“Pickup truck will have power outlets allowing use of heavy duty 240V, high power tools in field all day. No generator needed.”

Of course, people will want to actually drive the Cybertruck when attending the Electric Car Guest Drive, so it’s likely that the trailer will also be outfitted with one or more Tesla Powerwalls or a

similar large format stationary storage battery. Cooling and heating are huge power loads and RVs can normally run the air conditioning only when plugged into a 240V circuit. Large batteries and solar panels on the roof will enable the classroom to be parked anywhere it is convenient, including the far side of a large parking lot.

The Cybertruck’s 14,000 lb tow capacity means it could easily haul a 22’-30’ trailer loaded with audiovisual gear and EV chargers. The long range version, said to be capable of 500 miles range without trailer, would permit a range of about 200-250 miles between stops when towing a 6,000-8,000 lb load. With Tesla’s vast SuperCharger network, full day 500 mile trips anywhere in the U.S. become easily achievable.

After watching the unveiling at Tesla’s design studio in Hawthorne, Electric Car Insider put orders in for several Cybertrucks the moment the reservation system began accepting deposits. As soon as we take delivery, likely the first month the trucks start shipping, these Cybertrucks will start roaming around the country towing a fully-equipped mobile classroom dedicated to demonstrating EVSE and educating people about EV charger installation best practices.

The classrooms will have 20 demonstration EVSE onboard, 10 commercial units and 10 residential units. Visitors will be able to inspect the EVSE units up close and hands on, then watch short video demonstrations of the key features of each. High resolution 34” screens will be



placed next to each EVSE display, so that viewers can easily internalize the video lessons with the gear on display next to it.

EVSE equipment is usually very easy for end-users to operate, but the information most helpful to a purchaser of commercial-grade units, like aesthetics, ruggedness, safety and security features, administration and maintenance access, can all be enhanced by a close-up viewing.

Unfortunately, there's no retail store to visit in each town, so this kind of access is usually limited to trade shows and conferences. The Mobile EVSE Classroom will bring the units to cities all over the U.S., so that commercial purchasers can see a full range of the top gear, and

be in a position to make better decisions about the equipment that will be the best fit for their application.

The Rivian R1T Truck will also have AC Power outlets and other circuits that tap in to that truck's vast energy storage capacity. Last year, Rivian showed off an electric camping grill concept at the Overland West festival in Arizona.

These applications are just the first hints of what will be possible within the next few years with bidirectional chargers, which enable vehicle-to-home (V2H) and Vehicle-to-Grid (V2G) connections. Imagine being able to avoid demand charges on your utility bill by load-leveling your facility's grid power demand by

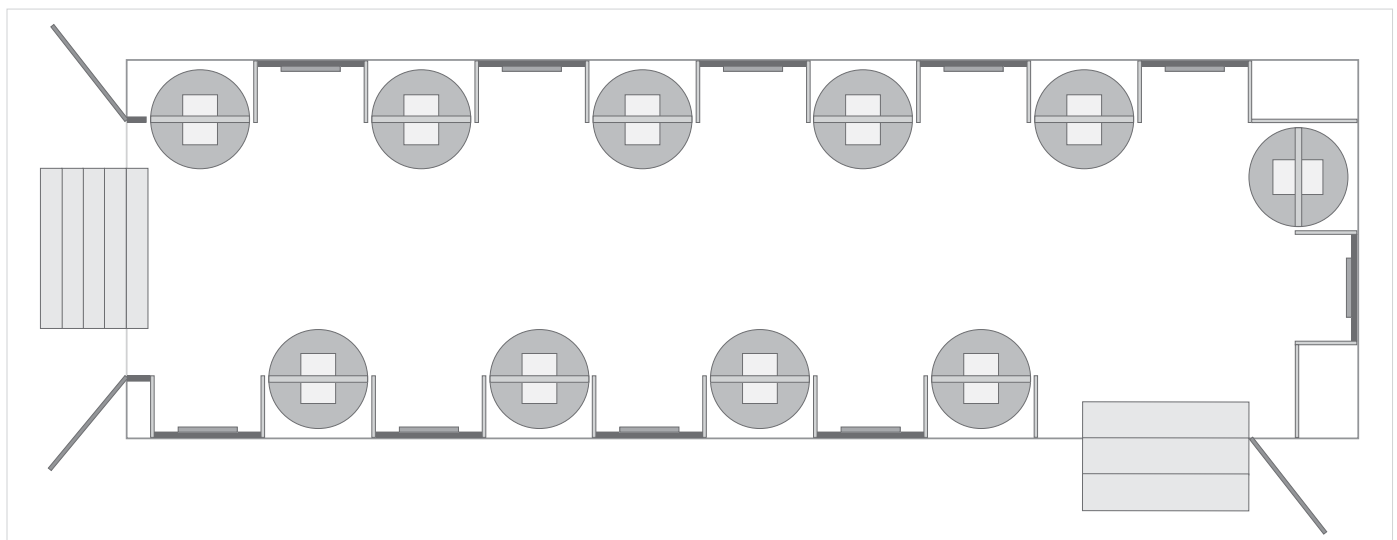
tapping the battery storage resource in the electric cars in your parking lot. The technology and economic models to do that are under development and in some cities pilot testing now.

Being able to take the Cybertruck, Rivian R1T Truck and Ford Mach E for a drive around the block while attending an EVSE educational event will be a practical demonstration of why electric cars are generating so much interest, excitement and economic activity.

See you there! 📍

The mobile classroom will feature demo units side by side with video screens that describe the key features and operation of the units.

Attendees will be able to conduct a self-guided review of a carefully curated selection of the best commercial EV chargers.





Cable Management

Organization and Safety

BY RICK DURST, AUSTIN TANNENBAUM AND CHRISTOPHER ALAN

A cord management system keeps the cord tidy and up off the ground when not in use.

Similar to the unstandardized placement of the fuel door on a gas-powered car, automakers have not standardized the location of the charging port door on a plug-in car. The Nissan Leaf and Kia Soul have the port in the middle of the front end of the vehicle. This is convenient at head-in parking stalls with a charger at the front of the stall, but less convenient at parallel parking spots with a charger on the curb. Other vehicles with placement on the driver's side front, driver's rear, or passenger's rear make a longer cord on the charging station a necessity.

The National Electric code requires that cords must have a cord management system if the cord length is over 25 feet.

While nearly all chargers have an option for a reel-style wraparound cord holder, many drivers do not take the time to wrap it back up. This leaves the cord on the ground, which presents both a trip hazard and the risk of cord damage from twisting and pulling on a tangled cord or stepping on the cord.

A cord management system keeps the cord up off the ground when not in use. There are various types of cord management methods.

RETRACTABLE REEL

The EVOCHARGE EVOREEL is a retractable cord reel system made by Phillips & Temro industries. The system is similar to a retractable reel air hose at a gas station, with a strong spring loaded cylindrical steel reel.

This heavy-duty reel was engineered specifically for electric vehicle charging cords. The unit is mounted to the ceiling, wall, or post. The circuit is hardwired. When the charger is unplugged, the EVOREEL automatically rewinds the cable back into its mechanism with a simple seatbelt-pull motion. The EVOREEL lets owners adjust the amount of cable slack that hangs in the reel's storage state so that owners can easily reach their charge port when needed.

The EVOREEL keeps charging cables clean and tidy and prevents them from being tripped on or accidentally run over by a vehicle. The EVOREEL also reduces cable and connector wear by keeping them secure, extending the life of the charger.

The EVOREEL is available with a 22-foot standard cable length or 30-foot optional cable length. This reporter has owned an EVOREEL for about 8 years and it still works flawlessly.

OVERHEAD PULLEY SYSTEM

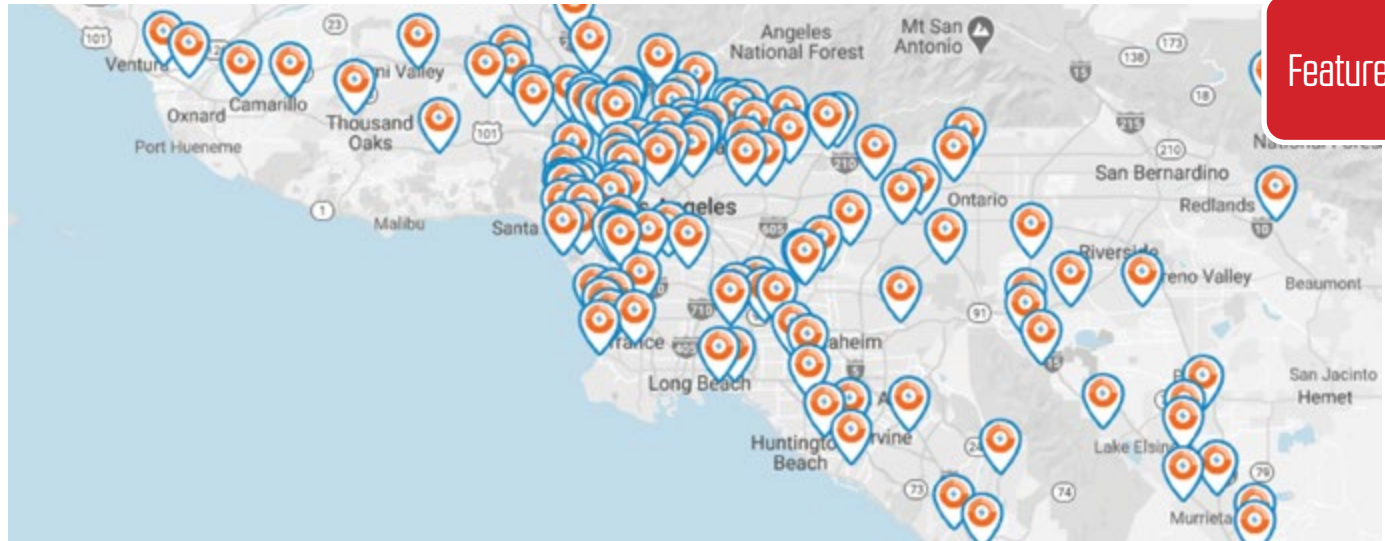
An overhead system holds a length of cable on a self-retracting cable and pulley system, similar to the hoses on gas pumps.

EVOCHARGE, Clipper Creek, ChargePoint and SemaConnect offer this type of system. Generally, these are good systems and keep the cable tidy. While these systems do a good job of storing the cord when not in use, reaching around a vehicle to plug in causes the cord to be suspended in the air. This can require people passing close by the car to duck under the suspended cord. Also, the suspended cable can rub on a car's fender if the cable has to angle back to the charger.

AUTOMATIC CORD RETRACTION

Using an automatic overhead cord retraction system in a parking garage is a nice solution. EVSE LLC has a system that, once activated, lowers the cord down from the unit mounted on the ceiling to a level where you can reach it and plug in your car from the vertical drop.

EVSE LLC also has a pedestal- or wall-mounted charger with an automatic retracting cord. This charger will automatically retract the cord once it is unplugged from a vehicle. ⚡



Feature

EVmatch

App enables public sharing of privately owned chargers

EVmatch
connects private
EV charger
owners with EV
Drivers.

BY CHRISTOPHER ALAN

EVmatch's mission is to increase public EV charging options. Similar to Plugshare and other charger-locating apps, EV drivers find nearby chargers using the EVmatch app. Unlike the other apps, with EVmatch, drivers can reserve time at a charger.

The EVmatch network includes commercial properties such as hotels, apartment complexes and small businesses. Commercial sites create an EVmatch hosting account, then install a WiFi-capable Level 2 EV charger. The charger connects to the EVmatch servers to authenticate users and handle billing.

An EVmatch account can help businesses attract customers and earn passive income during off hours.

EV owners who have a charger that is idle part of

the day or night (which is almost all chargers) can list it on EVmatch to earn extra income and provide a useful service to the EV community.

The service is used by EV drivers who lack home or work charging access. For example, renters and other multi-unit dwellers may not be able to easily install chargers with dedicated parking spaces.

By creating a marketplace of shared charging locations, EVmatch can help solve that problem by connecting EV Drivers with chargers. The EVmatch app can also be useful for people visiting another city or working for a short time out of town.

EVmatch is available on the Apple App and Google Play online stores. 📱



We make low cost chargers smart

- Our grid-sensitive system allows you to centrally manage multiple chargers to lower costs and carbon
- Easy to implement and inexpensive to operate



LIBERTY ACCESS TECHNOLOGIES

Call us today at **844-837-7201** to find out how to make your EV fleet or charging site more efficient by lowering costs, controlling access and reducing carbon OR go to **www.libertyplugins.com**

844-837-7201
libertyplugins.com



Access Controls

Provisioning, Security and Revenue

BY RICK DURST

Some access controls are physical, while others are software- or app-based. Examples of access controls include switches, cards, keypads, & smartphones.

SYSTEM TYPES

A charging station's access controls refer to the different ways that users can obtain the ability to utilize or otherwise manipulate the charger. There are owner-specific and customer-specific access controls. Some access controls are physical, while others are software- or app-based. Examples of access controls include switches, cards, keypads, and smartphones. For details regarding each access control method, see below.

OWNER MANUAL CONTROLS

Manual controls consist of simply turning off the power that supplies the charger or locking the charger up by some physical means.

Adding a relay that can be controlled by a switch near the

front desk could be expensive if the front desk is quite a distance from the path of the power flow between the electric panel and where the charger is located.

CHARGING EQUIPMENT VENDOR SUPPLIED CONTROLS

MANUAL CONTROLS

At least one vendor offers a simple key switch mounted on the charging station to turn on and off the control mechanism. With the key switch off, the charger will not supply power to the vehicle.

SOFTWARE-RELATED ACCESS CONTROLS

Many EV Charging vendors offer access controls using various types of controls, from card access and Bluetooth™ to kiosk and Smartphone network apps. Some

vendors can lock the charging cord in place on the charger and allow it to be unlocked or released from the holder when a charging session is activated.

Registering with a Network Operator can enhance your charging experience by providing features and notifications such as charge status (complete, charging, interrupted, etc.) energy consumption, charging duration.

Radio Frequency Identification (RFID) Cards

RFID cards have a small electronic chip inside. Holding this card up to a charger allows the charging station to read the chip and, if authorized, grant access. There are different types of RFID cards. Check with your security or IT department if you

plan to use employee or tenant access cards to see if they are compatible with the type of equipment you wish to purchase. Some vendors can sync chargers to pre-existing employee id cards. (This method will typically require coordination between the network provider and the security department.)

Magnetic Stripe Cards

Swipe cards can be special cards by a certain vendor or regular credit and debit cards. Card compatibility is determined by the type of card reader used by the station. Typically, these cards are used with a back-end payment system by a Network Operator (see section on Network Operators).

Payment Kiosk/Keypad

As an alternative to having each individual station use its own payment card and communications connected to a back-end network, a payment kiosk may be used. Users access a central payment kiosk that controls the operation of each individual charger. A payment kiosk may use a variety of different payment mechanisms such as cash or credit card and is comparable to those used for parking payments. The station is then activated with a code provided at the Kiosk using the keypad on the charger.



Smartphone Apps

Bluetooth™ controls: Controlling the operation of charging equipment using Bluetooth via computer or smartphone is a simple, low-cost method of managing access to chargers without a monthly access fee. Bluetooth™ allows an owner to program a series of access codes to grant to select users. Users then enter the codes into their charging app to access the charger. Codes can be changed an unlimited number of times and added or removed from each charger as desired.

Vendor Apps: Most network providers have their own in-house app to find and control in-network charging stations. While some vendors display other

charging spots in the area, they can only control the chargers within their specific network.

Pay with PlugShare: Plugshare is an app that is used to locate chargers along a route, in a given vicinity, or anywhere a driver selects. Plugshare has teamed up with network providers to facilitate payment via the PlugShare app. This allows users to pay with PlugShare and avoid the need to join a specific network provider.

Apple Pay™: AppleMaps™ shows Chargepoint charging stations that can be activated using the ApplePay™ service.

Paypal: Certain vendors provide the ability to pay with Paypal using their apps.

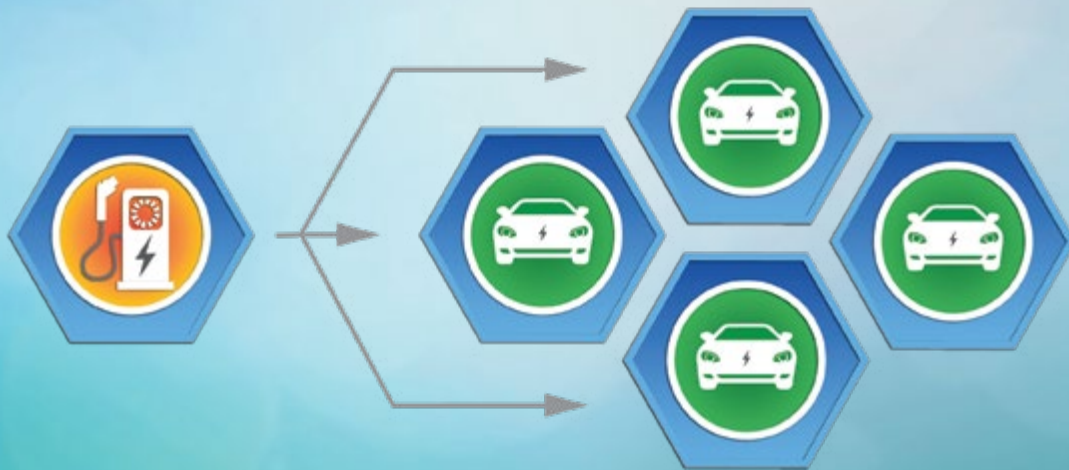
Make a Phone Call: If you lack a smartphone or misplaced your network card, most networked stations will allow you to make a call to the network support number on the charger to start a charge session. If you do not have an account with that vendor, you might need to make a payment with a credit card or join their network.

Fleet Operator Fuel Payment Cards: A few vendors can support Fleet Operator Fuel Payment cards. If you are a fleet user and want to track fueling on your electric fleet vehicles, then select one of these vendors. 🚗

Bluetooth™ allows an owner to program a series of access codes to grant to select users. Users then enter the codes into their charging app to access the charger.

Plugshare has teamed up with network providers to facilitate payment via the PlugShare app. This allows users to pay with PlugShare and avoid the need to join a specific network provider.





EV Charging Energy Management

Resource Allocation, Efficiency and Cost Savings

BY RICK DURST

Some utilities offer, and in other areas may require that new installations of EV charging stations be put on a specific rate plan.

Property Owners that want to install multiple charging stations will want to consider the impact that the charging load will have on their utility bills for the building where the chargers are being added. Your installer or local utility can help estimate how the added load to the building will affect your monthly bill.

Many utilities offer, and in some areas may require, that new

installations of EV charging stations be put on a specific rate plan. Some utilities offer pilot programs to help study EV charging load and may offer reduced rates in exchange for collecting detailed usage data.

If you have a facility that is going to install 10 or more EV charging stations or one that has limited capacity to provide power to new stations, it would be prudent to look into options that can reduce the impact on the building's electrical system which in turn will help reduce the new infrastructure costs.

Some of the different methods are described below and are listed in increasing order of sophistication:

EVSE MANUFACTURER POWER SHARING OPTIONS

Not all charger manufacturers

offer power sharing between chargers, as some feel that it affects the user experience in a negative way.

When chargers share the same circuit, the first customer that plugs into the shared charger will start the charger at the lower rate of:

- A) The capability of the on-board vehicle system, or
- B) The capability of the EV charging station.

When the second and subsequent users plug into chargers that share the same circuit, the charging rate is lowered to not exceed the selected setting. This limits the power available to both cars and could potentially prolong the charging of the vehicles connected. I say potentially, as not all cars have the capability to accept the same rate of charge. See the following



National Car Charging

The nation's largest & most experienced
EV charging reseller.

Building America's EV Infrastructure, One Station at a Time.

- Local Offices
- Competitive Pricing
- Personalized Service
- Unmatched Expertise
- 9-years Industry Experience



EV Charging Solutions For Every Application

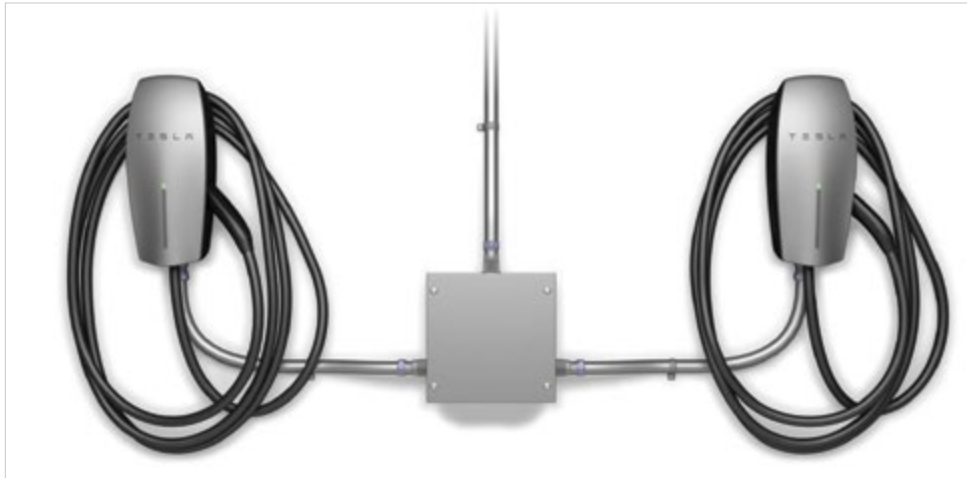
- Level 1
- Level 2
- DC Fast Charge
- Residential
- Commercial

- Offices
- Retail
- Multi-family
- Municipal
- Parking



**We work hard to
make your job easier.**





Tesla Wall chargers on one circuit share from as little as a 15 amp circuit to a 100 amp circuit.

example for an illustration of this principle:

The ClipperCreek Share 2 HCS-40 station is capable of sharing a 40 amp circuit with a maximum charge rate of 32 amps.

Scenario 1: (Hardware built into the unit when made, not a software driven feature. Cannot be added on.)

Car A: 2013 Nissan Leaf, capable of charging at 32 amps.

Car B: 2013 Chevy Spark, capable of charging at 16 amps.

Car A plugs in and starts charging at 40 amps. Car B plugs in and the HCS-40 lowers the charge rate of Car A to 16 amps and starts charging Car B at 16 amps.

Scenario 2: If the cars swapped plug-in order... Car B plugs in first and starts charging at 16 amps, then Car A plugs in and starts charging at 16 amps. Car B still stays charging at its max rate.

In scenario 1, If Car A's driver was hoping for a four-hour full charge to their car, they may come back to find out they only got about half of that.

Unless Drivers understand power sharing and the charging capabilities of how fast their car can charge up they might be confused when they go to different locations and don't get the same amount of charge from seemingly the same type of charger.

Tesla Power Sharing

Tesla Power sharing is very similar to ClipperCreek's, although they provide a larger range of options. Tesla can share up to four Tesla Wall chargers on one circuit and share from as little as a 15 amp circuit to a 100 amp circuit; although for better driver experience, Tesla recommends the following: four Chargers on a 100 amp circuit, three on an 80 amp circuit, and two on a 60 amp circuit. The Tesla Power Share will also detect a vehicle that has completed a charge and allow the others to share the available power left, as if the vehicle were not connected anymore.

Tesla promises a future software update will permit the new Gen 3 Wall connector to permit power sharing for up to 16 units.

ChargePoint Power Share

(Software and hardware installation. Possible to add later.)

ChargePoint has a similar power sharing capability, although Chargepoint's is more dynamic. As the charge rate on one vehicle lowers, it allows the other vehicle to charge at a higher rate. Again the upper limit of the charge rate is still the higher capability of the vehicle and the capability of the charging station. Chargepoint can be set to share one 40, 30, or 20 amp circuit between the two ports of a dual port charger.

ChargePoint Panel Sharing

(Software related, must be done in the Chargepoint software.)

Another fairly unique feature of the Chargepoint system is the capability to do PanelShare.

To understand how the technology works, see the following example:

You, the property owner, have 8 individuals with EVs at your business/workplace/public dwelling, etc. They all come in at about the same time each morning and need to charge before they go home. But you don't want them to have to get up in the middle of the workday to shuffle their cars around. You also have a limited power capability of the panel that will supply the chargers. For this example, let's assume each vehicle can charge at 32 amps, which equals 256 amps (32 amps x 8 vehicles) of needed power. If your panel had only 200 amps available, you would have an issue. With PanelShare, the system would not allow draw to exceed the panel availability of 200 amps, and as one car finished a charge it would allow the others to charge faster, keeping the overall load to 200 amps or less.

This scenario would also be an argument for installing Level 1 stations, which would cut the charging rate in half, and allow you to install more stations, but everyone would get the same Level 1 charge rate (12-16 amps) until their charge was over. The PanelShare option could allow those that need to step out during the day to get more charge before they leave, or a higher charge rate when they come back (assuming that some of the other vehicles had completed a charge.)

BUILDING LOAD MANAGEMENT INTERFACE

Many buildings have an Energy Management System (EMS), Building Management System (BMS), or a Building Control System (BCS). These systems can



monitor and in some cases control the operation of the lighting, Heating, Ventilation, and Air Conditioning (HVAC) security and other systems and subsystems in a building.

When adding EV charging (especially if you are adding DC Quick charging (DCQC) or 10 or more Level 2 stations) to a well-controlled building you should consider metering this new load as well as discussing available charging control systems during the charging station project.

The added load for DCQC and EV charging can affect the energy bill savings that the Building Operations team operators have been working to control over the past number of years. Owners may reduce peak demand charges by having the building control the chargers to minimize or prevent the chance of reaching a new building peak load.

Clipper Creek (COSMOS)

The Clipper Creek HCS-40 and HCS-60 have an optional interface that allows many Building Control Systems to collect data, such as vehicle connected status, view charger status, and control

charging power at four different levels using Digital and Serial communication methods.

Power Flex

The Powerflex system is a sophisticated system that provides a cost-effective installation if you need to add 20 or more EV chargers to your building or site.

The Power Flex's Adaptive Charger Control System takes four EV driver inputs: vehicle type, charger type, departure time, and required mileage. This data is sent to the Load Management Controller (LMC) and can be coupled with building management limitations and

utility demand response. Time of use and other parameters are all taken into account. Power Flex controls all the chargers to ensure drivers needs are met while balancing the needs of the building and utility. The PowerFlex System uses chargers from Clipper Creek or Webasto.

EverCharge EV Connector

Evercharge takes a different approach. It uses a non-centralized system of peer to peer chargers on a mesh network which the company calls Smart Power. There is no central controller. The devices communicate among themselves and adjust the power draw to stay below limits that have been configured by the installer.

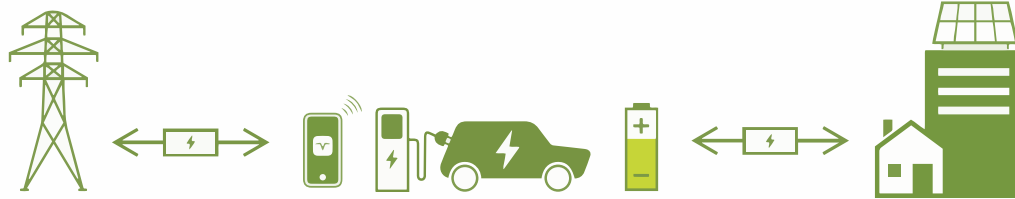
Liberty Plugins Hydra-R Multi-Charger Control System

Liberty Plugins offers a controller system that can operate up to 10 EV Chargers with a single unit. It can provide access control capabilities and collect energy use data by individual users. This controller lets you select from a variety of non-networked chargers and turns them into smart chargers. Hydra-R can support Utility Demand Response programs and interface with building controls systems. ✓

Some Clipper Creek models have an optional interface that allows many Building Control Systems to collect data.

Power Flex controls all the chargers to ensure drivers needs are met while balancing the needs of the building and utility.





Nuvve, Enel X lead North American

Vehicle to Grid Technology

BY CHRISTOPHER ALAN

Vehicle to Grid (V2G) technology has the capability to allow electric car, truck and bus batteries to be used to balance the load on the electrical grid when the cars are not used for transportation, which of course is most of the time. In most conceptions, this means that the car battery can be earning the owner money when they are not driving the car. The concept has the potential to completely upend the economics of driving an electric car. Here are the innovators who are pioneering this technology.

Nuvve

San Diego-based startup Nuvve is at the forefront of Vehicle to Grid (V2G) technology. Established in 2010, Nuvve has 33 full-time employees and consultants working on V2G. They have partnered with EDF in Europe and Toyota Tsusho in Asia and have placed more than 10,000 electric vehicles onto V2G across five continents. According to company founder and CEO Gregory Poilasne, their mission is, "to lower the cost of electric vehicle (EV) ownership while supporting the integration of renewable energy sources including solar and wind." To this end, they are collaborating with bus companies, building managers, municipalities, and

others to transform their clients' EVs into electricity-storing, revenue-generating, green-economy powerhouses on wheels. Currently, their operations are limited to commercial fleets, but Nuvve plans to extend its reach to domestic applications in the near future.

Nuvve's software allows EV owners to set their battery's minimum charge level from their smartphone or computer so they always have enough energy to get where they need to go. Nuvve's software limits charge and discharge rates in compliance with OEM guidelines to protect against battery degradation.

Enel X

Enel X is a division of European utility giant Enel. Enel Group purchased eMotorWerks in 2017 and combined it with North American division Enel Green Power North, EnerNOC and Demand Energy Networks to provide grid balancing and energy management services. eMotorWerks had developed and sold a popular EVSE called JuiceBox and had conducted early pilots of load management through a service they called JuiceNet. Because of their massive capital access and deep technical capabilities, Enel X is a very influential player in the V2G market.

Mobility House

Starting in 2016, Mobility House demonstrated bidirectional charging using a Nissan Leaf and e-NV200. They integrated the electric cars into their smarthouse in Munich, using bi-directional fast charging stations. In 2018, a German Transmission System Operator approved the Nissan Leaf for primary regulation, using The Mobility House's bi-directional charging and energy management technology.

Ovo

Ovo installed their first Vehicle to Grid Charger in 2018. They have created a pilot program in the UK using an intelligent energy platform called Kaluza that controls the V2G charger. Through the Kaluza web-app, participants are able to: 1) Set charging schedules with the option to override them for unexpected journeys. 2) Set minimum charge levels. 3) See live charging updates (i.e. when your car is discharging or charging). 4) Keep a close eye on things by viewing your historical charging data.

Look for the V2G sector to boom in the coming decade as the technology matures and EV ownership continues to increase. 🔴

Supplier Directory

EVSE Hardware Manufacturers

Directory

EVOCHARGE™

EVOCHARGE A BRAND OF PTI

1 (800) 328-6108

evochargesales@phillipsandtemro.com

EVOCHARGE® charging stations and industry-leading EVOREEL® cable management. Dedicated to providing EVSE hardware with true (OCPP).



SIEMENS

Steve Six

(803) 530-6089

Steven.six@siemens.com

www.usa.siemens.com/emobility

Head of Business Development, Siemens eMobility Solutions. Siemens has a full range of eMobility® solutions for light, medium, and heavy-duty electric vehicles.



POWERCHARGE™

Michael Moser

(585) 533-4085

Mike@PowerChargeEV.com

PowerChargeEV.com

PowerCharge™, a U.S. manufacturer of innovative EVSE offers multiple models for any application. Our industry leading U.S. Support Team is available to assist.



EVERCHARGE

Kevin Kostiner

(415) 942-1092

kevink@evercharge.net

evercharge.net

EverCharge is a fully integrated EV charging OEM specializing in intelligent power management that minimizes infrastructure and maximizes the number of EVSEs.



EVBOX

Jim Johnson

(617) 413-1500

jim.johnson@evbox.com

www.evbox.com

At EVBox, we have 10+ years of experience making smart, reliable, and scalable EV charging hardware and software with the freedom of open standards at its core.



BEAM

Andy Ike

(858) 799-4583

gosolar@envisionsolar.com

envisionsolar.com

The patented EV ARC™ 2020 from BEAM (formerly Envision Solar) is the only 100% renewable, moveable, grid-independent EV charging option.



FREEWIRE TECHNOLOGIES

Patrick Flahive

(415) 779-5515

pflahive@freewiretech.com

www.freewiretech.com

FreeWire products leverage energy storage to easily connect with or work independently of the grid, delivering power without construction, permitting, or ongoing energy costs.

BTC POWER

BROADBAND TELCOM POWER, INC.

(714) 259-4888

sales@btcpower.com

EV Charging Solutions from Level 2 to DC Fast Chargers. BTCPower is part of innogy eMS, an international e-Mobility technology provider which is part of E.ON.

Supplier Directory

EVSE Hardware Manufacturers

Directory



JUICEBAR

Paul Vosper
(203) 939-9125
pvosper@JuiceBarEV.com
JuiceBarEV.com

JuiceBar leads the EV Charger rEVolution. Our Gen3 Level 2 chargers connect to any network and are the fastest, most reliable, and safest in the industry.



LIBERTY ACCESS TECHNOLOGIES

Chris Outwater
(805) 886-3300
chris@libertyplugins.com
libertyplugins.com

Liberty specializes in access control systems for electric vehicle charging in the parking industry, fleet EV and multi-tenant dwellings.



NUVVE CORP.

Lynn Ames
(619) 483-3448
evse@nuvve.com
<https://nuvve.com/chargers>

We offer bidirectional AC and DC charging stations which are preconfigured to work with NUVVE's V2G platform.



BLINK CHARGING

Rebecca Gutierrez, VP Marketing
(305) 521-0200
rgutierrez@blinkcharging.com
www.BlinkCharging.com

Blink Charging is an industry-leader of electric vehicle (EV) charging stations. We design, manufacture, own and operate EV chargers on the Blink Network.



CLIPPERCREEK, INC.

Will Barrett
(530) 887-1674
Will@ClipperCreek.net
www.clippercreek.com

Top charging equipment supplier. Versatile and reliable solutions including: load management, access control, dual connector stations, circuit sharing.



TRITIUM

(310) 961-5299
enquiries@tritium.com.au

Tritium is a leading DC fast charging manufacturer. Driven by a mission of energy freedom for all, Tritium is pursuing a world where EV drivers can go as far as they want.



ENEL X E-MOBILITY NA

Andrew Croll
(844) 885-5850
resources@evcharging.enelx.com
www.evcharging.enelx.com

Enel X e-Mobility is an Enel Group company revolutionizing charging with its JuiceBox smart charging stations and JuiceNet IoT platform.



WEBASTO CHARGING SYSTEMS

Kevin Kelleher
(626) 226-7686
kevin.kelleher@webasto.com
<https://www.evsolutions.com>

Webasto Charging Systems manufactures industry-leading electric vehicle charging solutions that are the #1 choice of more automakers than any other brand.

Supplier Directory

EV Charger Installers and Consultants

Directory



NATIONAL CAR CHARGING

Brian Bilbo
(866) 996-6387 Ext. 702
bbilbo@nationalcarcharging.com
www.nationalcarcharging.com

Save Time & Money when adding EV Charging. We do it all – from vetting manufacturers to install and beyond. We offer quality products at great prices.



LILYPAD EV

Larry Kinder
(816) 210-9633
larry.kinder@lilypadev.com
www.lilypadev.com

Full-service provider of electric vehicle charging infrastructure. Advice, Sales, Design, Installation, Support. Turnkey service you can trust.



IN-CHARGE ENERGY

Sonia Soni
(833) 772-4638
Sales@inchargeus.com
www.inchargeus.com

We are an energy solutions company that is accelerating electrification of the transportation industry by providing a comprehensive scalable e-fleet solution.



GREENLOTS

(855) 900-7584
Info@greenlots.com

Greenlots industry-leading software and services enable fleet operators, drivers, auto OEMs and others to deploy and manage EV charging infrastructure at scale.



EV CHARGING PROS

John Kalb
(415) 717-5241
johnk@evchargingpros.com
www.evchargingpros.com

A vendor-neutral EV charging consultant since 2011. Focus on site selection, use cases, business models and EVSE vendors. From simple to bleeding edge projects.



LOW POWER EV CHARGING

Steve Atwater
(415) 717-5962
steve@lowpowerevcharging.com
www.lowpowerevcharging.com

Low Power EV Charging offers Plugzio, a 120v 20a outlet that can charge EV's, and monitor and recover energy fees. Perfect for apartments and parking garages.



EVSE HELP DESK

Christopher Alan
(619) 335-7102
chris@electric-car-insider.com
www.electric-car-insider.com/help

A full service help desk to answer questions about commercial EVSE and get you connected to consultants, engineers, distributors and installers.



DURST ENERGY SOLUTIONS

Rick Durst
(503) 724-0958
durstenergy@gmail.com
http://durstenergy.com

Site selection, Installation, Procurement, Project Management, Consulting. Maintenance and Repair of L2 and DC Quick Charge stations. Supply Warehousing.

Supplier Directory

EVSE Management Software

Directory



EVMATCH, INC.

William Truesdell
(970) 631-5121
william@evmatch.com
www.evmatch.com

EVmatch offers the most affordable EV charging service for any property type. Our software lets drivers reserve and pay for charging so you maximize ROI.



POWERFLEX

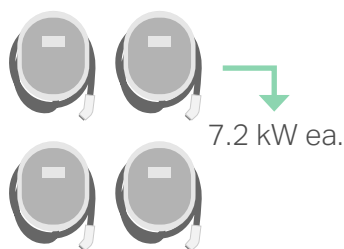
(650) 469-3392
info@powerflex.com

We are a turnkey provider of large-scale, load-managed EV charging for workplaces, campuses, municipalities, and fleets. Hardware. Software. Installation Services.

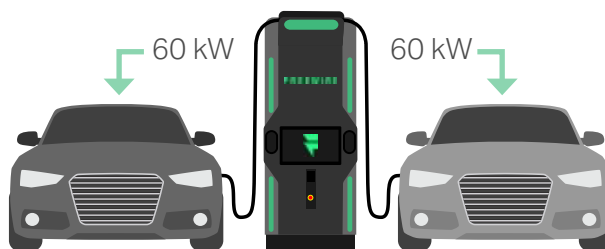
UPGRADE TO ULTRAFAST CHARGING



Boost Charger's integrated energy storage leverages existing low voltage inputs to deliver high power output with no additional upgrades.



2-4 LEVEL 2 CHARGERS



1 ULTRAFAST BOOST CHARGER

- ✓ Easily connect to existing infrastructure
- ✓ Deliver up to 480 miles of range per hour
- ✓ Reduce demand charges with battery buffering
- ✓ Charge two EVs simultaneously

CONTACT A REPRESENTATIVE FOR A RETROFIT GUIDE & QUOTE TODAY

sales@freewiretech.com

SUBSCRIBE ONLINE

Electric Car
INSIDER

To receive the next edition



- ☐ Commercial EVSE Buyers Guide
- ☐ Commercial Truck Buyers Guide
- ☐ EV Buyers Guide
- ☐ Residential EVSE Buyers Guide

Requests may be made online at **electric-car-insider.com/subscribe**
or by texting or emailing a photo of this page to **subscribe@electric-car-insider.com**

Full Name _____

Address _____

City _____ State _____ Zip _____

Phone _____ Email _____

Your contact info will only be used to fulfill your request and never for any other purpose.

EV Educational Resources

Supporting EV Adoption from
Awareness to Advocacy

Electric Car INSIDER

EV&EVSE Buyers Guides



Comprehensive, full page profiles of the best EVs and EV chargers.

Electric Car Guest Drive



Test drive the latest electric cars and learn from EV owners at a no-pressure social event.

Discount Pricing Guide



The app that can save you thousands of dollars on EV and EVSE purchases. Customizable for utilities and AQMDs.

Educational Pillars



Large scale interactive exhibits for indoor and outdoor events.

Mobile EVSE Classroom



ECI will deploy a mobile classroom – towed by a Cybertruck – throughout the US in 2021.

EV Navigator



Online, interactive app to guide prospective EV drivers on the path to ownership and advocacy.

ECI creates electric vehicle educational resources for utilities, AQMDs, automakers and EVSE manufacturers, integrators and installers.

sales@electric-car-insider.com

619-335-7102