

V2X Fast Charger - CA-30/CA-10

DC FAST-CHARGING

Following the successful rollout of the first mainstream electric vehicles (EV's) in North America in early 2011, several new makes and models have been introduced, and demand has steadily increased. Reducing charging time is key to improving the owner experience, and to improving fleet management capabilities. DC Fast-charging with the CA-30 and CA-10 provides up to 50 miles of range in less than 20 minutes.

Princeton Power Systems has deployed over 1 MW of EV Chargers.

VEHICLE-TO-GRID FUNCTIONS

An electric vehicle (EV) is a battery on wheels, and represents a valuable energy storage resource. EV's can provide backup power to local buildings, smoothing resources for renewable energy, and EV owners can even be paid to provide services to the electric utility and grid operators. The CA-30 and CA-10 are the only commercially-available charging stations to unlock these capabilities for compatible vehicles.

CHAdEMO CAR CHARGING

50 – 500 VDC
CA-30 (30 kW maximum charge rate)
CA-10 (10 kW maximum charge rate)
CHAdEMO connector and cable included

OUTDOOR KIOSK CHARGING STATION SOLUTION

Both the CA-30 and CA-10 are freestanding 'kiosk-style' charging stations perfect for installation in dedicated parking spaces without the need for physical infrastructure. Each station comes standard with a 22' cable.

FLEET MANAGEMENT SOFTWARE

The CA-30 and CA-10 provide unprecedented control capabilities for fleet operators. The charging stations can interface with a variety of fleet-management software applications, including the common Open Charge Point Protocol (OCPP).



Features

- CHAdEMO Compliant
- Vehicle to Grid
- Grid-tied and off-grid/backup
- Nissan Leaf™ V2G Compliant
- Over 1 MW Deployed



Nissan LEAF V2G Compatible

The Leaf is the world's best selling highway capable all-electric car ever, with global sales of almost 140,000 units as of September 2014.

V2X EV Charger (CA-10/CA-30)

	CA-10	CA-30
Power Rating	12.5 kW	30 kW
Power Factor	Greater than 0.95 above 20% rated power	
Size	25 W x 18 D x 78 H	
Enclosure	NEMA 3R (Rainproof)	
Input Voltage	240 VAC +10% -12% Split	480 VAC +10%, -12%, 3-phase
AC Current	52	40 A RMS
Frequency	60 Hz nominal, 59.3-60.5 Hz	
Efficiency	94.5%	97%
Max DC Current	40A	120 A
Max DC Voltage	500 V	
Voltage Accuracy	1% (Full Range)	
Current Accuracy	1.5% + 1A (Actual)	
Weight	~700 lbs	
Storage Temperature	-20 to 60°C	
Operating Temperature	0 to 40°C	
Humidity	5- 95% (non-condensing)	
User Interface	Generator Start/Stop Load Port non-parallelable	Login, Enable/Disable, Charge Status
Compliance	IEEE 1547 (grid connection compliance), CHAdeMO	
Communications Options	10/100/1000 Base-T Ethernet (RJ45)	
Communications Protocols	Modbus	OCPP 1.5
Bi-directional	Yes	
Cable Length (ft)	22	

ABOUT PRINCETON POWER SYSTEMS

Princeton Power Systems, based in New Jersey and founded in 2001, designs and manufactures state-of-the-art technology solutions for energy management, microgrid operations and electric vehicle charging. The company is a global leader working with customers and partners across North America, Europe, Africa and the Caribbean. It manufactures CE-certified power electronics that are used in advanced battery operations and alternative energy, with built-in smart functions for ancillary services. The company solves power issues to allow continued growth of distributed renewable energy by providing energy storage solutions that are proven to work, even in harsh environments. Princeton Power Systems builds integrated systems and designs, commissions and operates microgrids for leading organizations, including Fortune 500 automakers and industrials, and non-profit organizations. The company proudly manufactures its products in the USA. More information about Princeton Power Systems is available at www.princetonpower.com.

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Princeton Power Systems' EV Charging Technology being utilized at the Los Angeles Air Force Base.