SIEMENS
Ingenuity for life

Siemens electric vehicle make-ready solutions

Siemens VersiCharge™ residential and commercial applications

Make-ready electrical solutions

Siemens offers an extensive array of electrical infrastructure and eMobility® solutions designed for any transportation electrification project worldwide.

Our extensive lineup of electric vehicle (EV) chargers for the level two, level three, and fleet/eBus applications can be easily coupled with Siemens electrical equipment (make-ready) to provide a proven, integrated offering that will future proof your installations.

While the world of EV charging is new to many of our customers, Siemens has a long history of designing and supporting the electrical infrastructure for these applications. For over 170 years, Siemens has been designing and deploying electrical infrastructure in projects of all sizes — from single-family homes to hospitals, airports, and office buildings. Siemens can provide the complete PlugtoGrid™ EV infrastructure, from stand-alone charging, to full-scale commercial charging solutions. These projects can include project design, the electrical infrastructure, networking components, support services and a complete, cloud-solution portfolio for monitoring, control and billing.

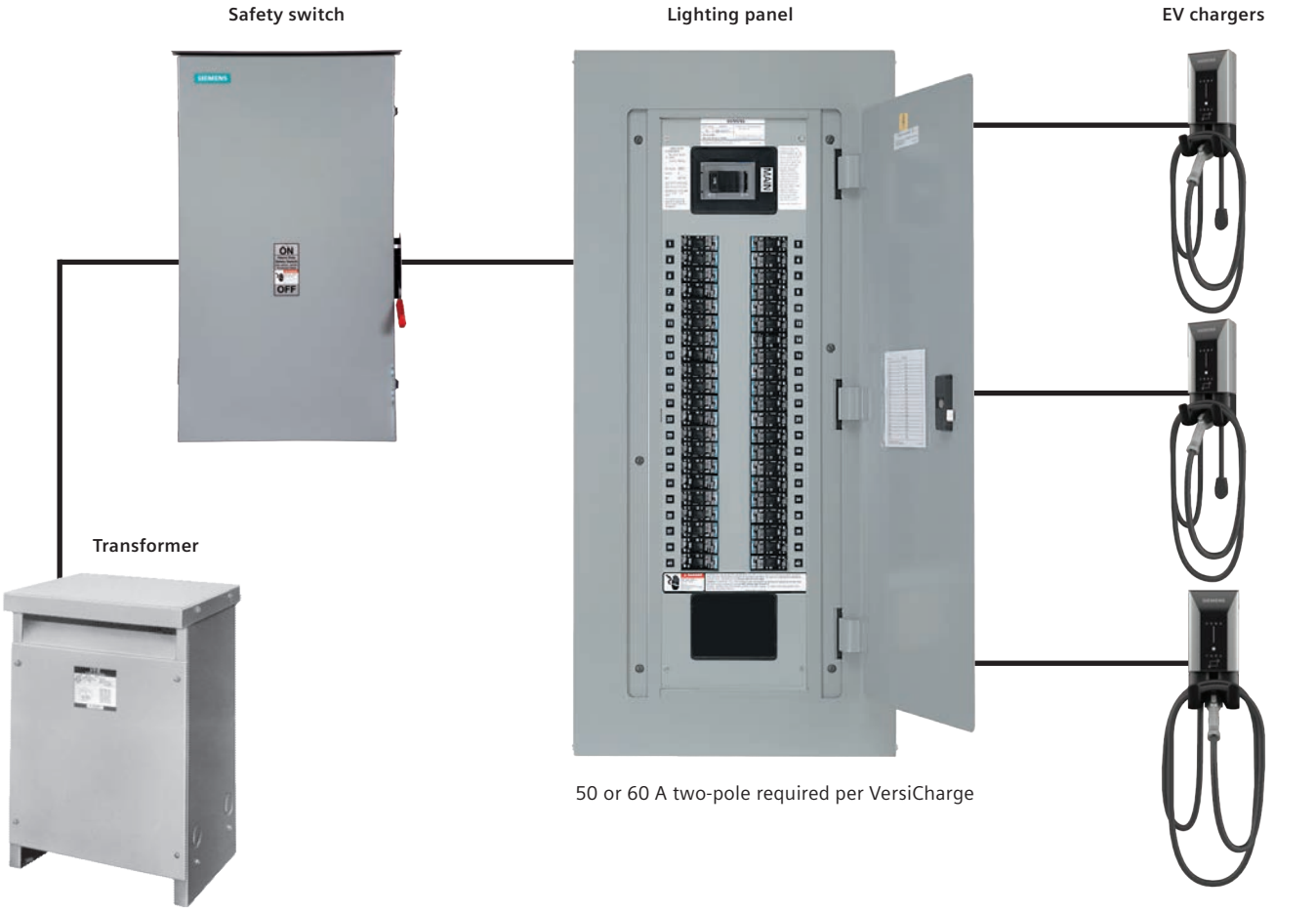
Siemens is your integral make-ready partner in transportation electrification.

Siemens VersiCharge make-ready applications:

- **Workplace charging**
- **Parking lot / facility / fleet charging**
- **Condominiums / homes / group metering applicaitons.**

usa.siemens.com/emobility

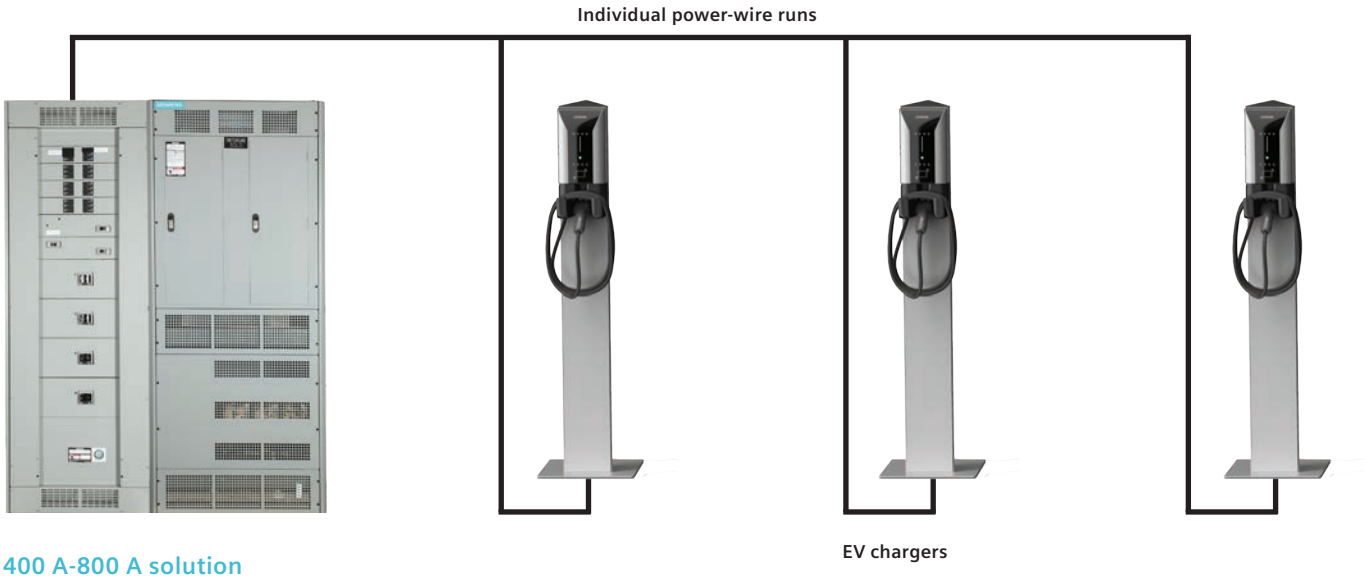
1. Workplace applications



Benefits:

- Siemens solution across the portfolio
- Lighting panel with optional SEM3™ for embedded metering
- Pedestal mounting available for the VersiCharge units
- Dedicated power for each VersiCharge - no load sharing
- Simple addition of a 50A (for 40A charger) or 60A (for a 48A charger) two-pole breaker powers each VersiCharge.

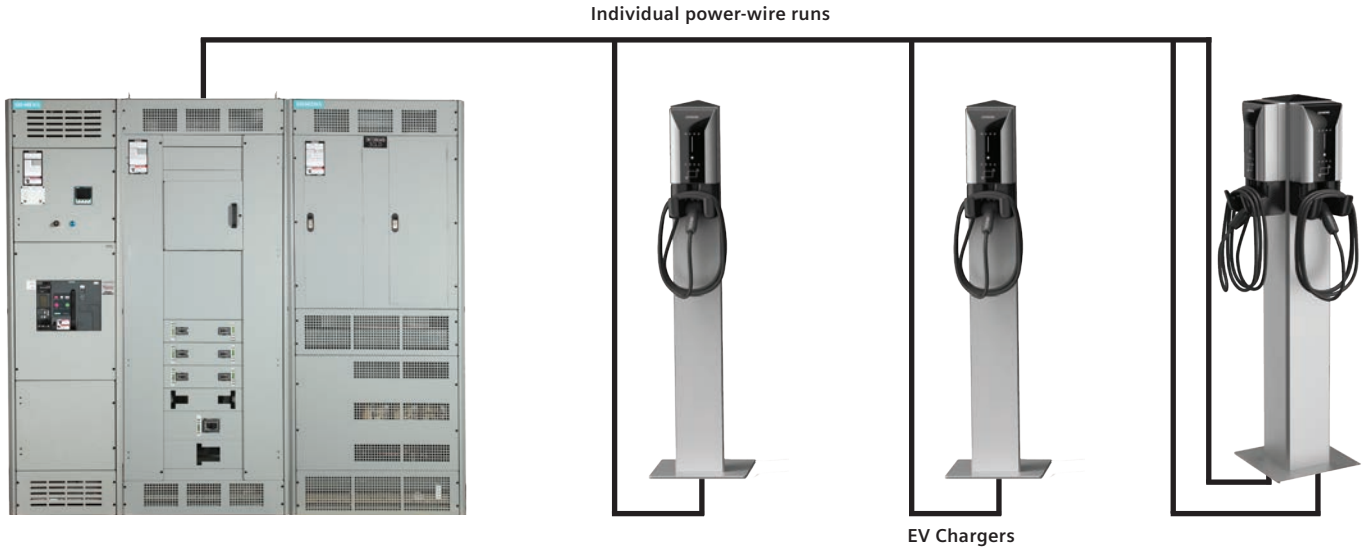
2. Parking lot / facility / fleet applications



400 A-800 A solution

Benefits:

- Integrated power system (Siemens IPS) panelboard and transformer for reduced installation time
- Compact footpint
- Optional embedded utility-metering compartment
- Future-proof installation with room for additional circuit breakers.
- Each VersiCharge will require a 208/240V, 50A or 60A two-pole breaker.



1,200 A + solutions includes SEM3 embedded metering, remote monitoring plus communication

Benefits:

- Ability to communicate MODBUS/TCP/IP out for remote operation of main circuit breaker
- Siemens Integrated Power System (IPS) panelboard and transformer for reduced installation time
- SEM3™ embedded metering for monitoring each individual charger or group of chargers
- Compact footprint – skinny main up to 2,500 A
- Optional embedded utility-metering compartment
- Future-proof installation with room for additional circuit breakers.
- Each Versicharge will require a 208/240V, 50A or 60A two-pole breaker.

3. Residential EV Charger applications

Figure 1

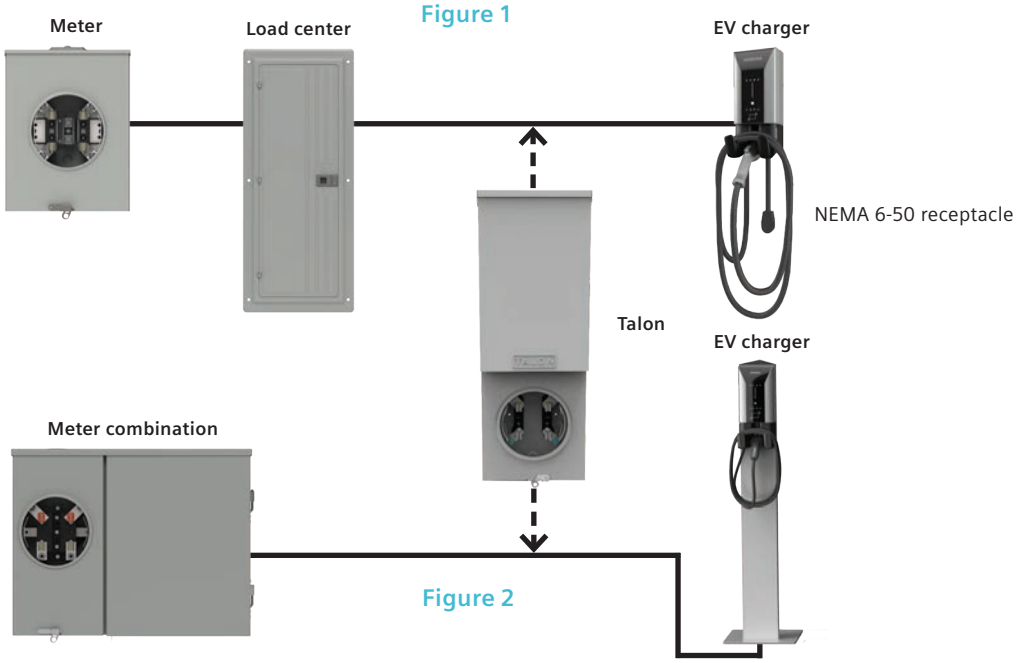


Figure 2

Single family:

The most common installation is adding a dedicated two-pole 50 A or 60 A circuit breaker to a new/existing load center, or meter combination. This is connected to either a 240V, NEMA 6-50 type receptacle for the 40A charger or directly to the charger for the 48 A version. See figures 1 and 2.

If the car charger needs to be metered by the utility company separately, a Talon meter pedestal can be installed between the load center/meter combination and the car charger (see figure 3).

For Electric Utility Service Equipment Requirements Committee (EUSERC) areas, the EV car charger UNI-PAK product can be mounted on the outside of the house allowing separate metering and loading for the house and car charger (see figure 4).

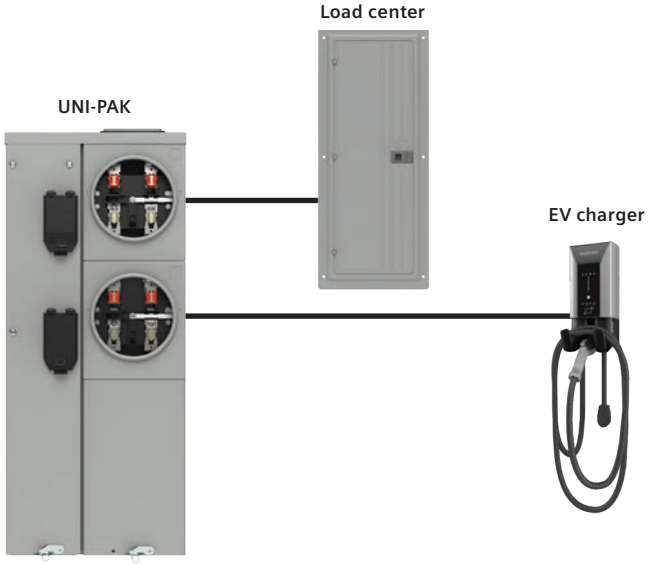
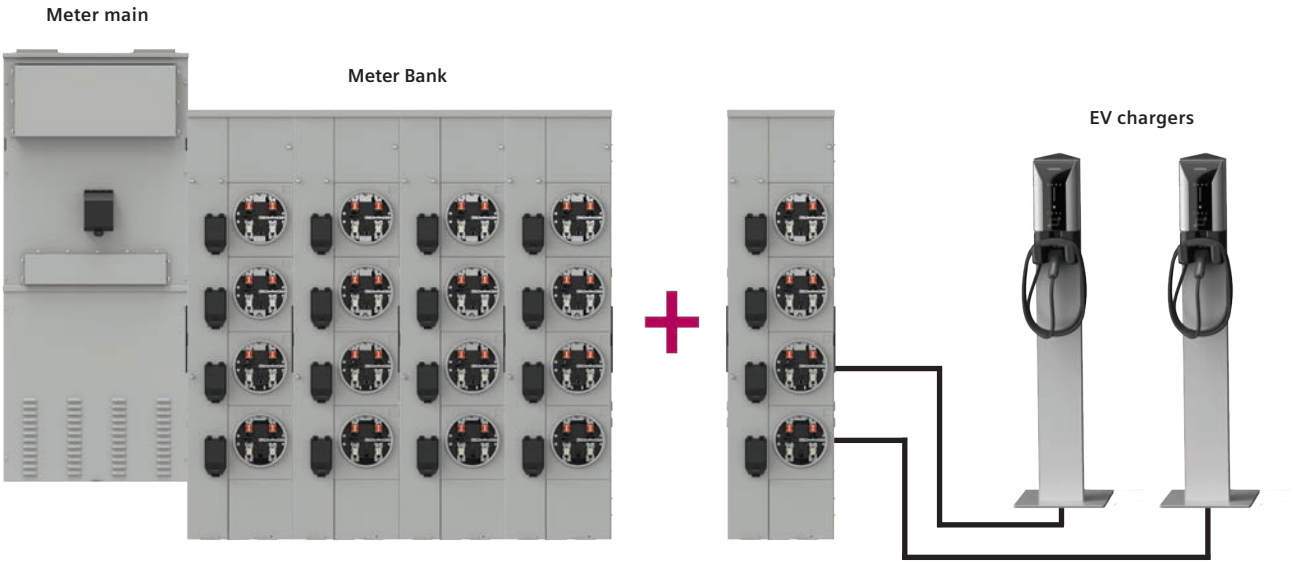


Figure 3

3. Condo / multifamily / group metering applications

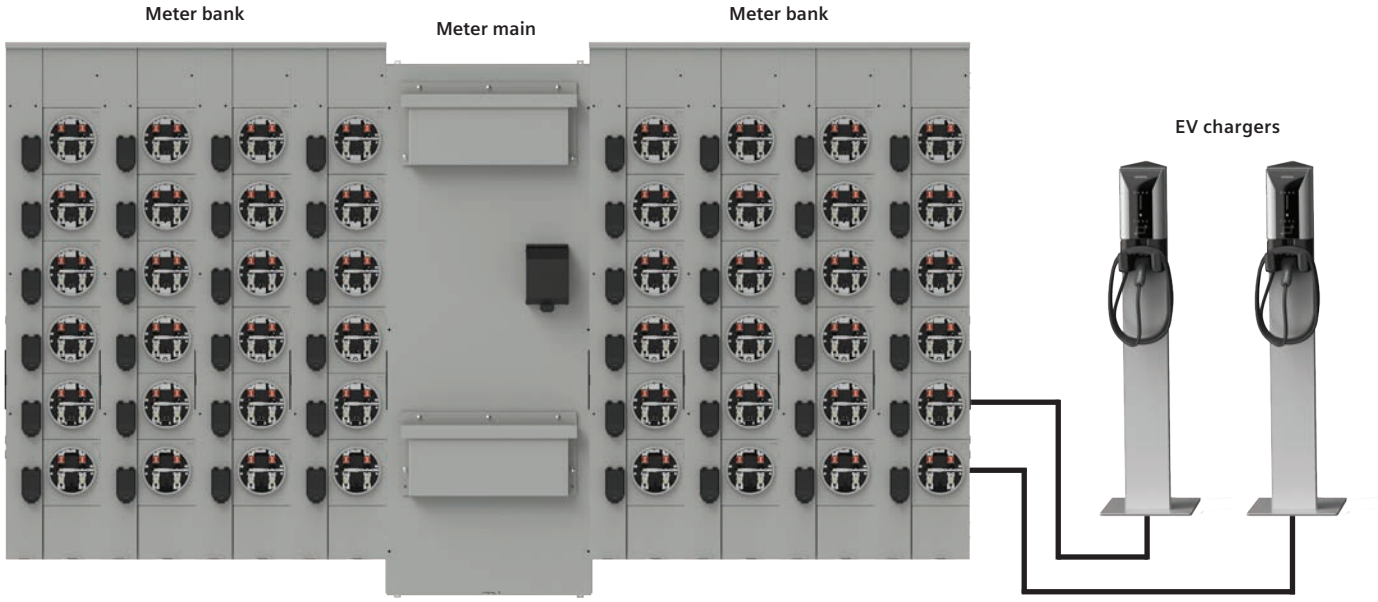
Figure 4



Multiuse:

- A small number of car chargers located near multiple buildings. Adding one or more meter stacks to an existing group metering lineup can be used to supply and meter each charger (see figure 4).
- A large number of car chargers located in a separate parking area (i.e., parking deck). Several methods can be used to supply and meter each charger. One is to install a completely separate group-metering service with the purpose of feeding and metering each charger. Other methods are similar to the installations for high-density or workplace-applications (refer to pages 2-3) (see figure 5).
- A Siemens 6 unit Uni-PAK option can also be used for group-metering applications.

Figure 5



VersiCharge™ electric vehicle charging portfolio

Residential VersiCharge

- 9.6kW or 11.5kW models
- NEMA 4 Outdoor rated
- Six different adjustable power settings
- LED MHI status lights
- 20-foot cord with J1772 plug
- UL & Energy Star Rated
- 3 Year Warranty

Catalog Numbers:
9.6kW (40A) 8EM1312-4AF10-OAA3
11.5Kw (48A) 8EM1312-5AF10-OAA3

Residential VersiCharge (Smart):

- 9.6kW or 11.5kW models
- Same features as the Basic model but adds:
  - Wi-Fi and Ethernet communications
  - ANSI C12.20 metering accuracy
  - OCPP protocol for cloud management
  - Free mobile App for setup and monitoring
  - ISO15118 hardware ready

Catalog Numbers:
9.6kW (40A) 8EM1312-4CF18-0FA3
11.5Kw (48A) 8EM1312-5CF18-0FA3

Commercial VersiCharge (Parent):

- 9.6kW or 11.5kW models
- Same features as the Child model but adds:
  - Built-in Cellular Modem (SIM card provided by owner)
  - Built-in gateway functionality. This charger can link to 10 Wi-Fi Child chargers within 200 feet line of site or 32 serial wired chargers. Providing the need for no communications wiring.
  - Communications are expanded to OCPP 1.6, Modbus RTU serial and ModBus TCP/IP

Catalog Numbers:
9.6kW (40A) 8EM1310-4CF14-1GA1
11.5Kw (48A) 8EM1310-5CF14-1GA1

Commercial VersiCharge (Child):

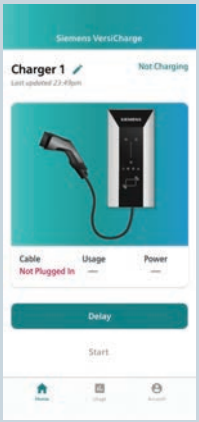
- 9.6kW or 11.5kW models
- NEMA 4 Outdoor rated
- RFID Reader communicates OCPP and Modbus RTU serial
- Wi-Fi and Ethernet communications
- ANSI C12.20 metering accuracy
- Free mobile App for setup and monitoring
- ISO15118 hardware ready
- Six different adjustable power settings
- LED MHI status lights
- 20-foot cord with J1772 plug
- UL & Energy Star Rated
- 3 Year Warranty

Catalog Numbers:
9.6kW (40A) 8EM1310-4CF14-0GA0
11.5Kw (48A) 8EM1310-5CF14-0GA0

VersiCharge Pedestals:

- Mounting post for all VersiCharge variants
- Robust construction for commercial, outdoor use
- Optional cable management systems
- Included tamper resistant screws for VersiCharge charging unit

Catalog numbers:
- 8EM3XXXXXXX



Mobile App:

For any VersiCharge with communications, you can utilize the Siemens Mobile App to setup, register, monitor and control the charger. Download on the iOS or Android sites.

Siemens complete line of Open (OCPP) communicating charging hardware

Siemens make-ready electrical infrastructure equipment is designed to support any charging application and all the Siemens charging products. Contact your local Siemens representative to help layout or design you specific installation.

AC chargers Level 2 (L2):

- Name: VersiCharge™ residential and commercial
- Primarily car market
- Home, workplace, longer-term stop areas
- 9.6kW and 11.5kW Power
- Six times faster than Level 1
- Easy Smart Building/ Control system Integration

DC fast charger Level 3 (L3):

- Name: VersiCharge Ultra™
- Primarily car market
- Malls, fast food, parks, highway corridors, etc.
- 50 kW and 175 kW
- Half an hour to charge
- Built in the U.S.

DC heavy-duty bus plug-in:

- Name: VersiCharge MaxxHP™
- Fleet vehicle, bus depots
- 150 kW/high voltage
- Up to four remote dispensers
- One to four hours to fully charge
- Cloud IoT monitoring
- Built in the U.S.

Opportunity charging bus overhead:

- Name: VersiCharge Apex™
  VersiCharge Go™
- MDHD (medium-heavy-duty) overhead – top down
- On-route charging
- 300 kW - 600 kW
- Minutes to charge
- Built in the U.S.

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