



VERSICHARGE™ RESIDENTIAL AND COMMERCIAL APPLICATIONS

Siemens electric vehicle make-ready solutions

usa.siemens.com/emobility

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 2, Level 3 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.

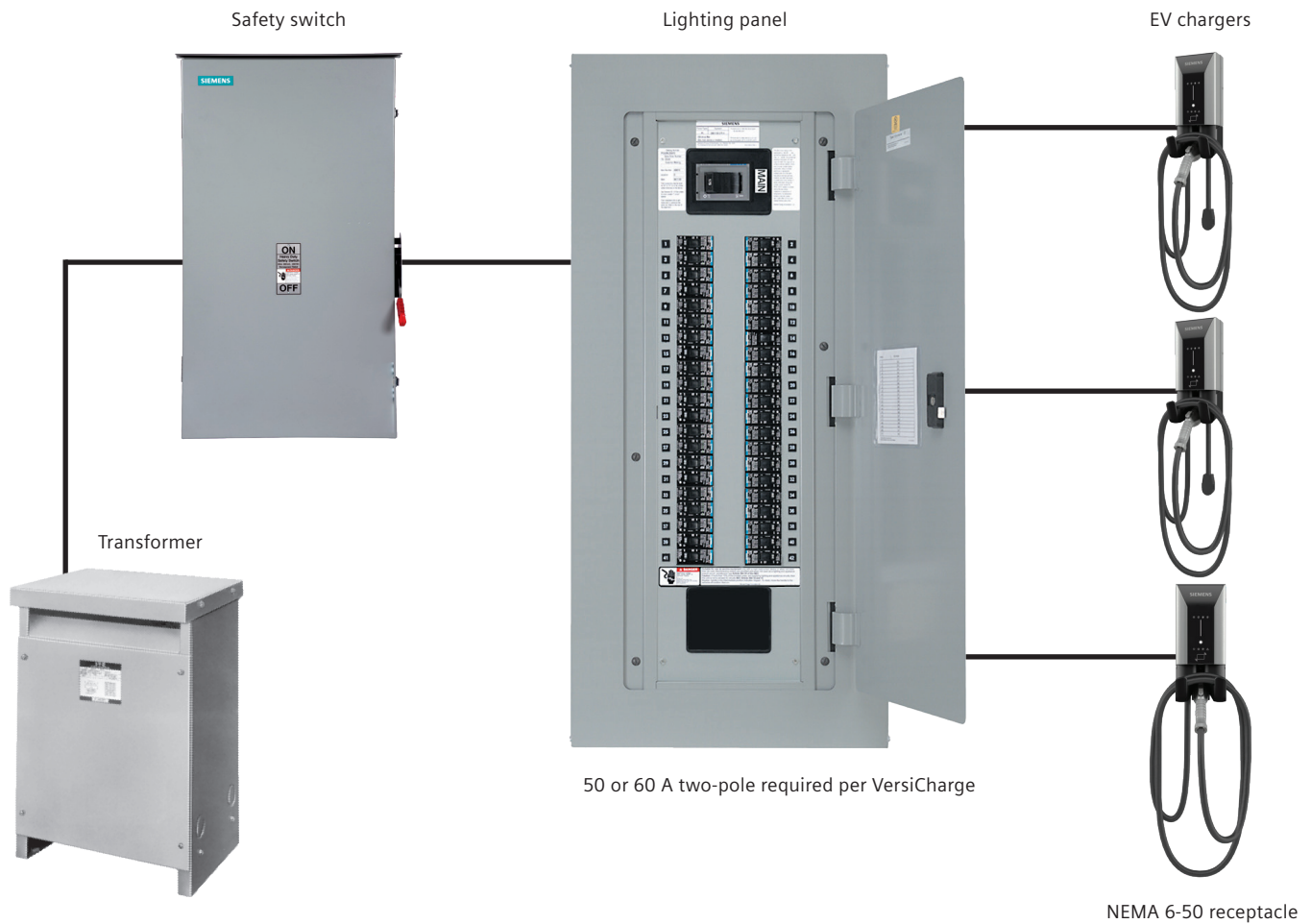
Siemens is your integral make-ready partner in transportation electrification for:

- Workplace charging
- Parking lot / facility / fleet charging
- Condominiums / homes / group metering applications



SIEMENS

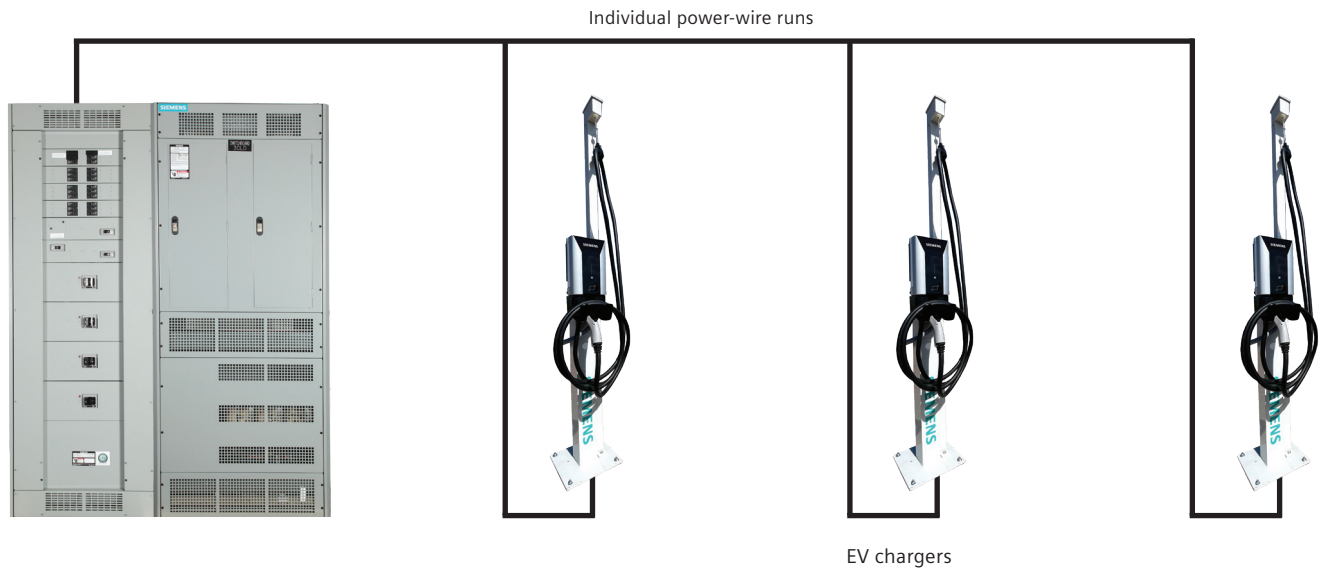
1. Workplace applications



Benefits:

- Siemens solutions 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 50 A (for a 40 A charger) or 60 A (for a 48 A charger) two-pole breaker powers each VersiCharge

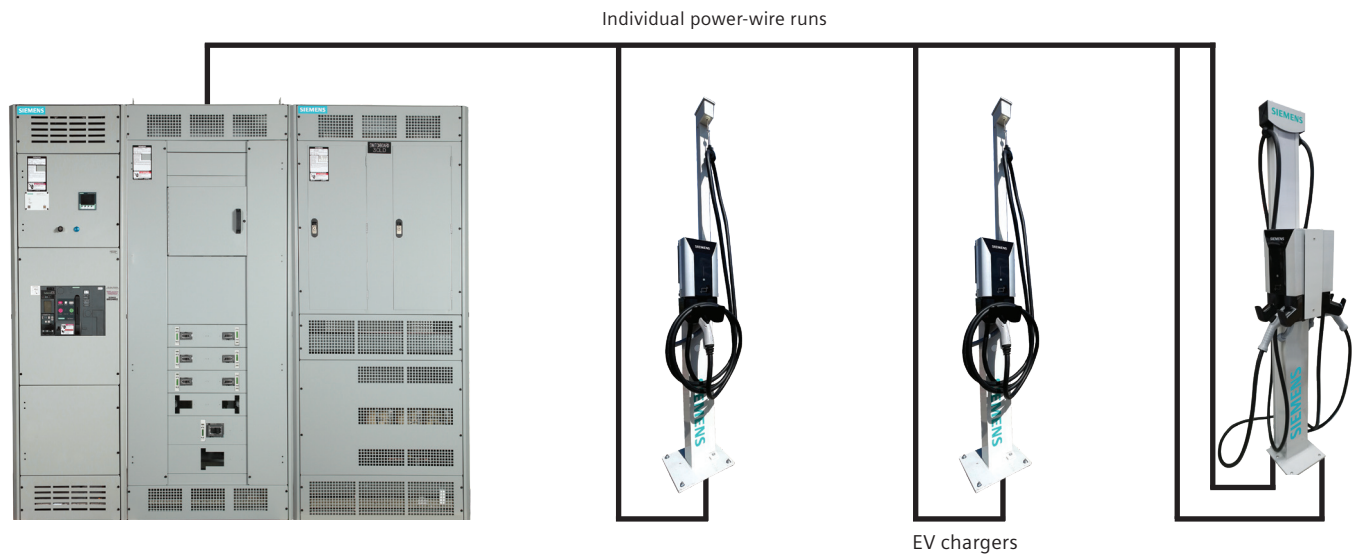
2. Parking lot / facility / fleet applications



400 A-800 A solution

Benefits:

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

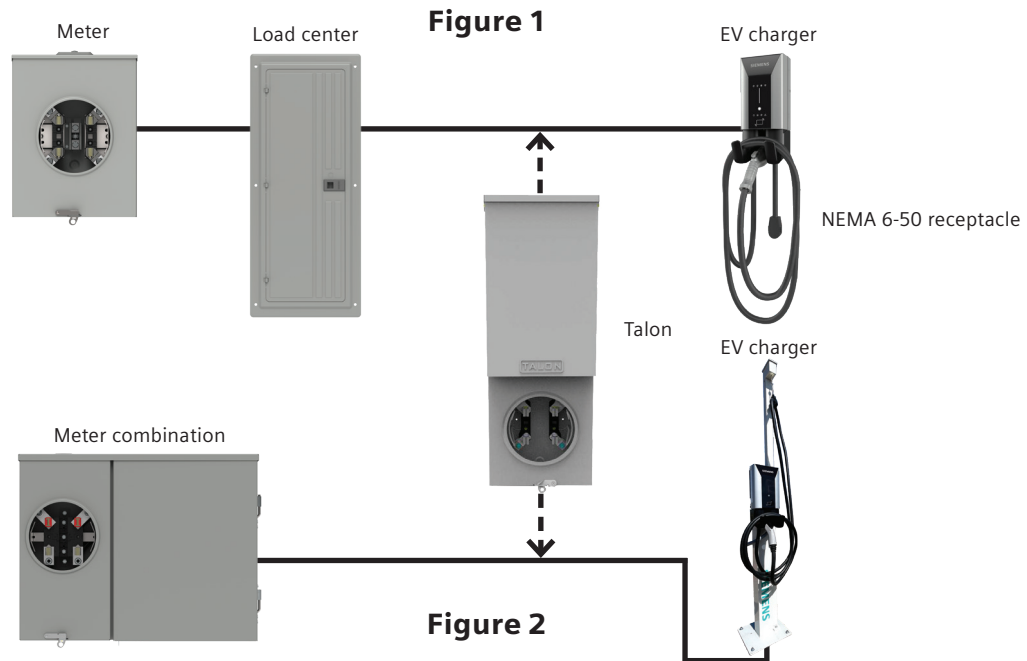


1,200 A + solutions includes SEM3 embedded metering, remote monitoring plus communication

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 / 240 V, 50 A or 60 A two-pole breaker

3. Residential EV charger applications



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 240 V, NEMA 6-50 type receptacle for the 40 A 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).

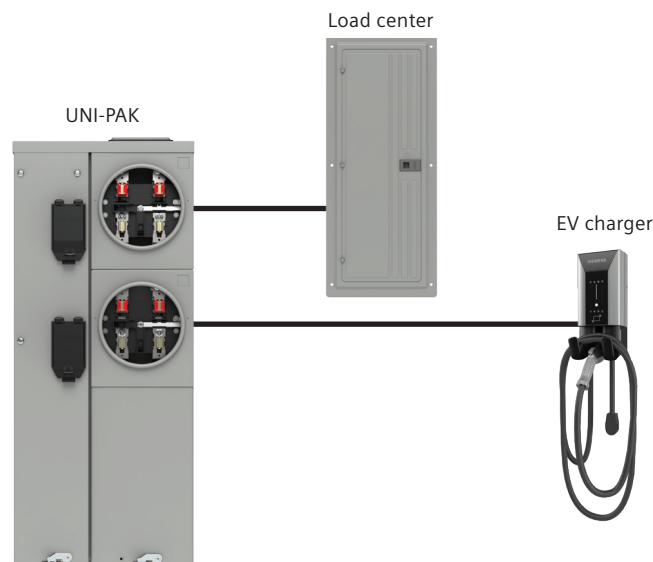
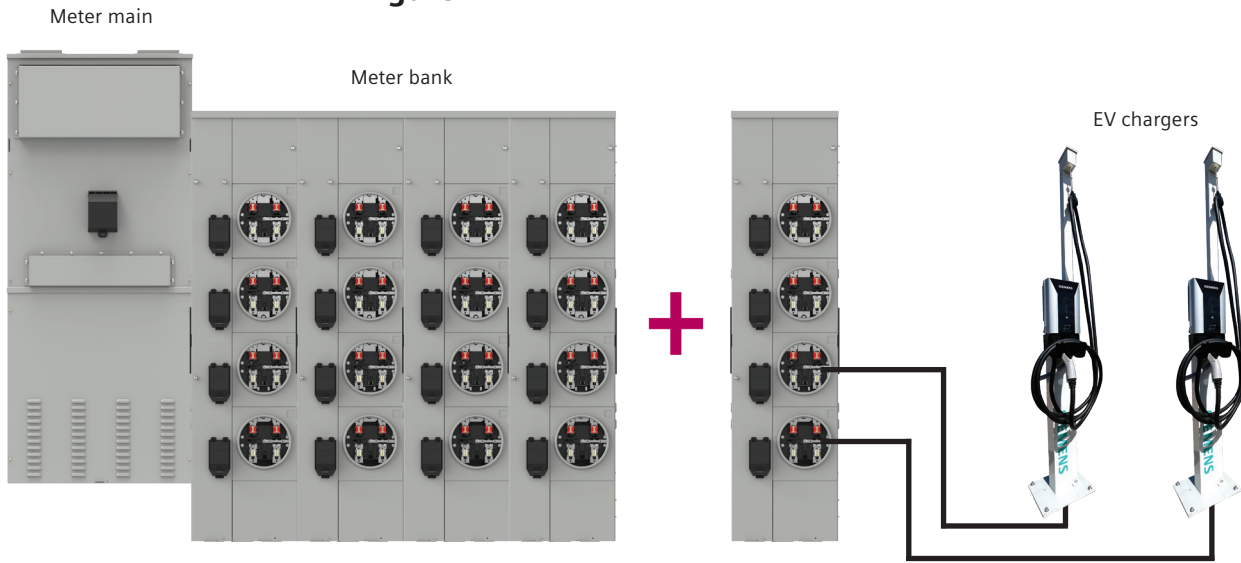


Figure 3

3. Condo / multifamily / group metering applications

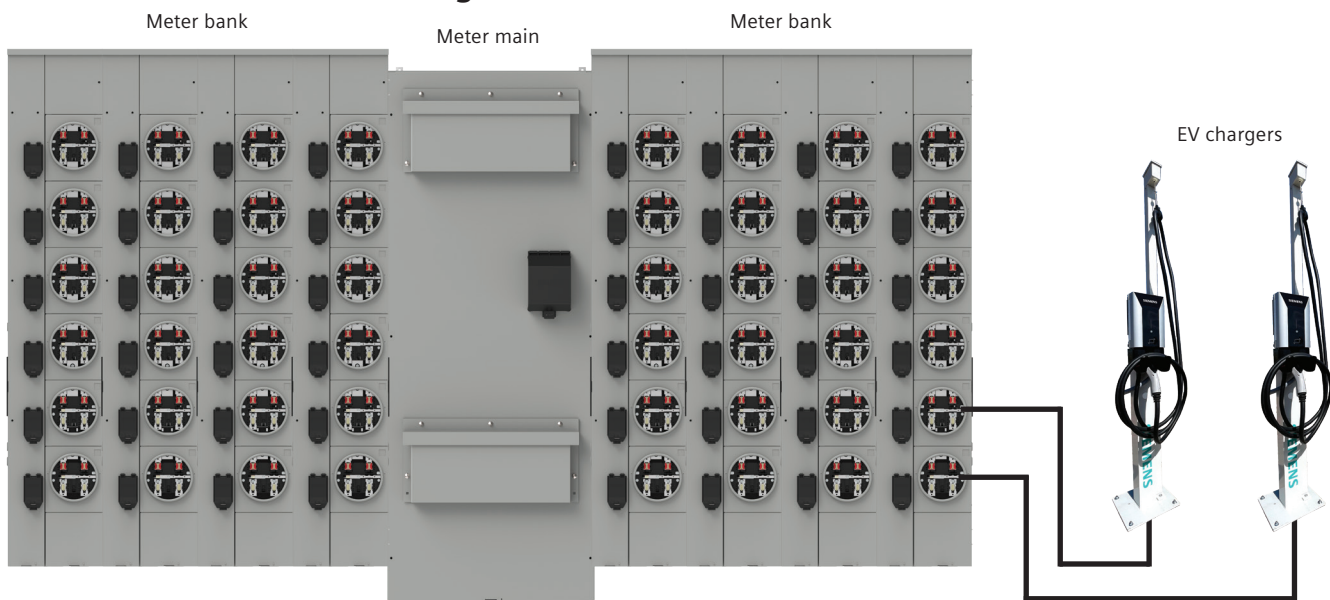
Figure 4



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 (such as a parking deck). Several methods can be used to supply and meter each charger. One method 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

Whether it's a single family home, multifamily dwelling, parking garage, mall or city transit project, Siemens has the experience, products and personnel to help make your EV project a success.

The team at Siemens is ready to help design, lay out and support your EV infrastructure project. Contact your local Siemens sales representative for more details on these cutting-edge products and services.

Commercial VersiCharge™ AC chargers Level 2 (L2)



- Primarily car market
- Residential, workplace, longer-term stop areas
- 9.6 kW and 11.5 kW (240/208 V)
- Energy Star certified
- Building management system integration
- VersiCharge Blue - Buy American compliant
- Cellular, Wi-Fi, Ethernet and Serial communication options

DC heavy-duty MDHD plug-in - SICHARGE UC™



- Offers 150 kW per cabinet
- Supports four dispensers
- Up to 950 V
- OCPP compliant
- Built in USA
- Integrated LED safety lighting
- Cellular communications
- Sequential charging
- Easy integration to Siemens DepotFinity cloud solutions

Managed Services



- IoT cloud management of EV assets
- Monitoring
- Billing services
- Reporting
- Demand/maximum - load control
- On-site startup
- Project design

DC fast charger - VersiCharge Ultra™ Level 3 (L3)



- Primarily car market
- Highway corridors, etc.
- 175 kW
- Credit card reader options
- OCPP compliant
- Supports CCS1 and CHAdeMO plugs
- Charges one EV

Make-ready electrical infrastructure



- Low, medium, and high voltage electrical equipment
- Substations
- Transformers
- All the electrical infrastructure you need for an EV installation
- Built in the USA

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 lay out or design your specific installation.



AC chargers

Level 2 (L2):

- Name: VersiCharge™ residential and commercial
- Primarily car market
- Home, workplace, longer-term stop areas
- 9.6k W and 11.5 kW power
- Six times faster than Level 1



175 kW

DC fast charger

Level 3 (L3):

- Name: VersiCharge Ultra™
- Primarily car market
- Malls, fast food, parks, highway corridors, etc.
- 175 kW
- Half an hour to charge



Flexible heavy-duty vehicle charging

- Name: SICHARGE UC
- Buses, trucks, and other heavy-duty vehicles
- Offers 150 kW per cabinet
- Connect up to four CCS1 dispensers
- Cloud IoT monitoring
- Built in the U.S.A.

Legal Manufacturer

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