

Siemens electric vehicle make-ready solutions

Siemens VersiCharge™ applications

Make-ready electrical solutions

Siemens offers an extensive array of electrical infrastructure solutions designed for any transportation electrification project world wide.

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 EV infrastructure — from hardwired installation to full-scale commercial charging solutions, including as many make ready components as you may need (i.e., transformers, switchboards, meter banks, as well as networking components to ensure good signal strength — even in the most challenging environments).

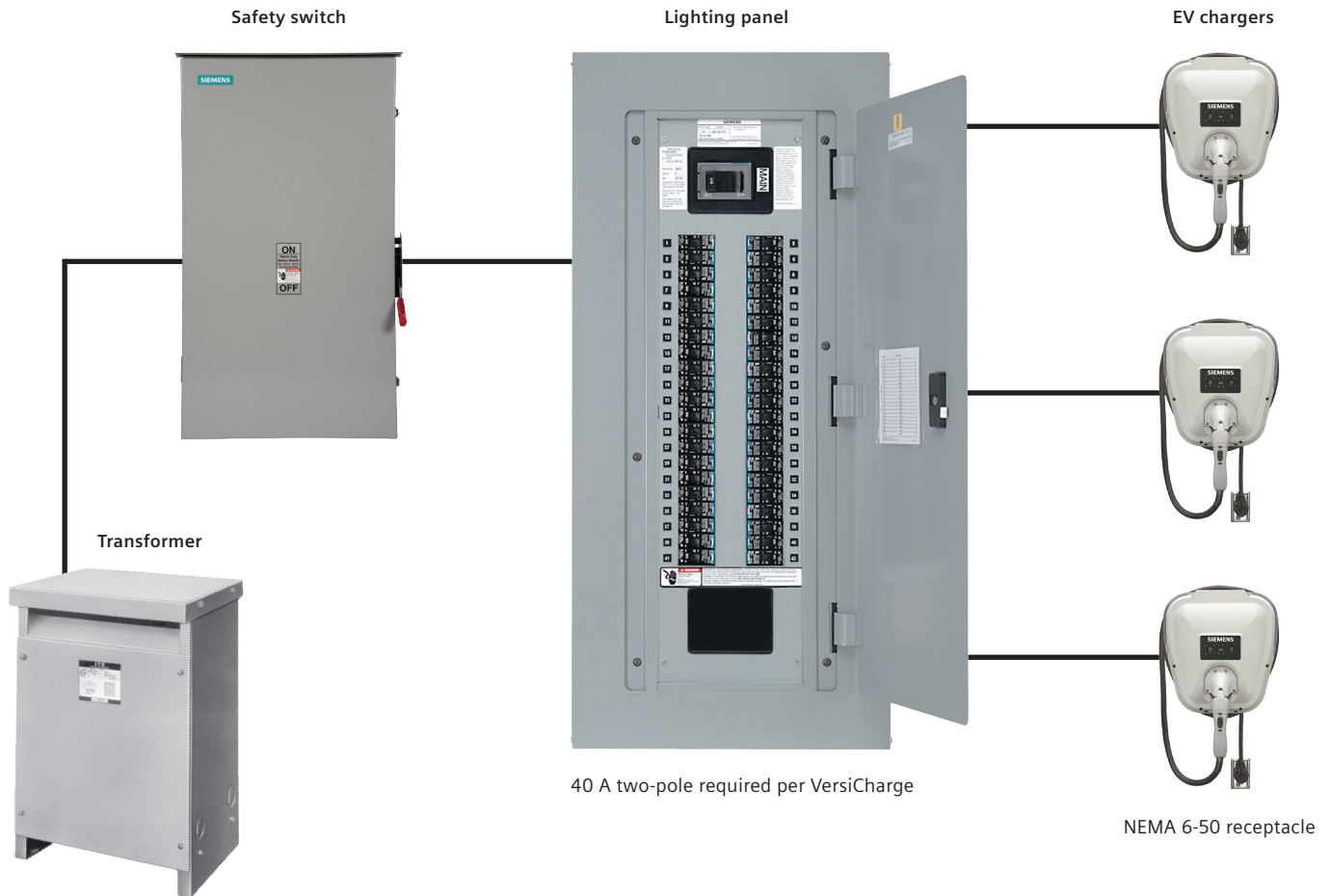
Siemens is your integral make ready partner in transportation electrification.

Siemens VersiCharge make-ready applications:

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



1. Workplace applications

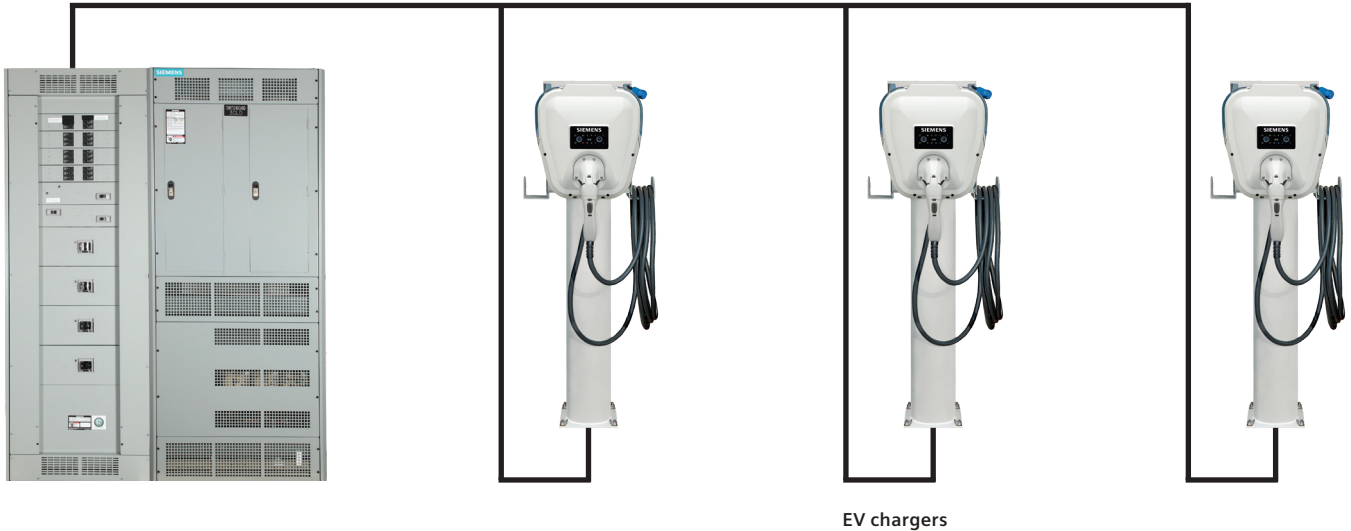


Benefits:

- 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
- With the basic 40A two-pole circuit breaker requirement, no costly electrical equipment expansions needed.

2. Parking lot / facility / fleet applications

Individual power-wire runs

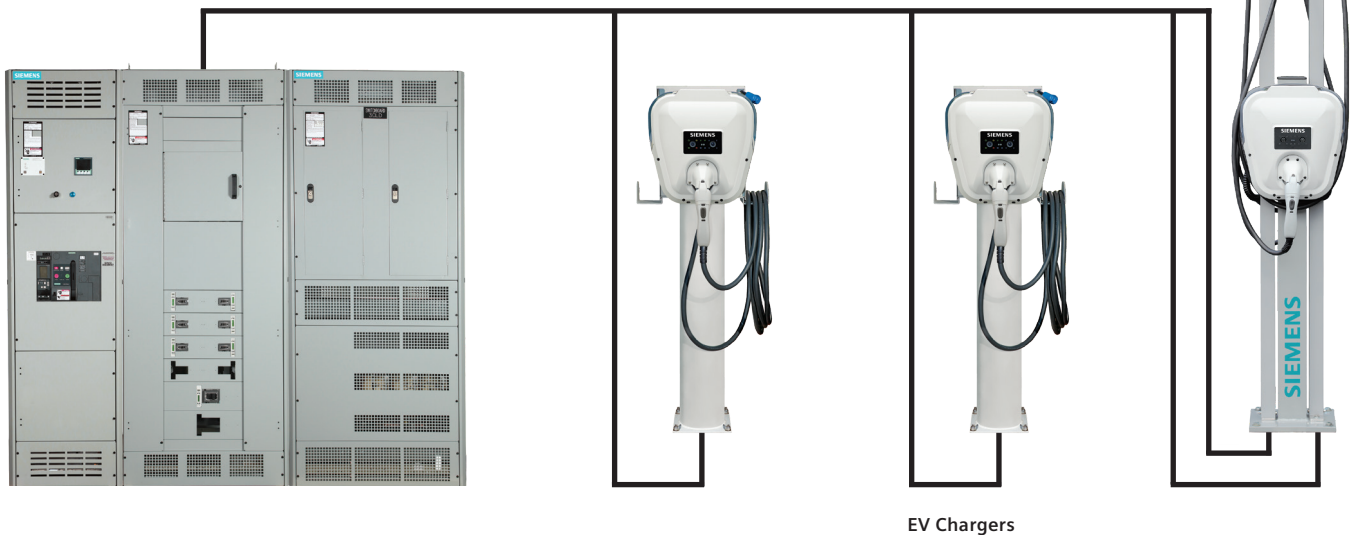


400 A-800 A solution

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.

Individual power-wire runs

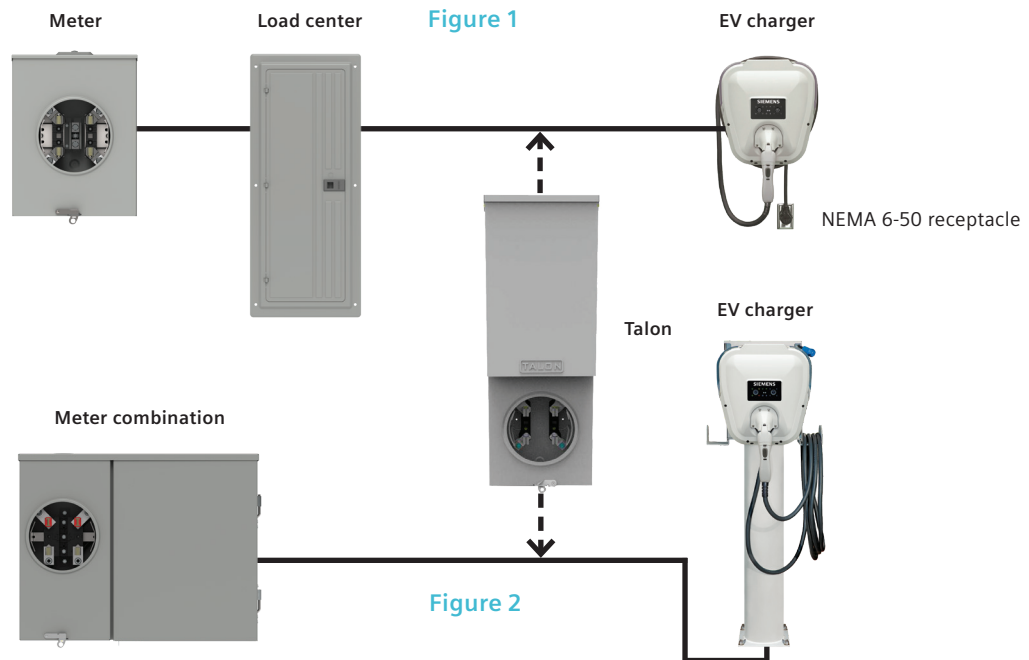


1,200 A + solutions includes SEM3 embedded metering, remote monitoring plus communication

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.

3. Single EV Charger applications



Single family:

The most common installation is adding a dedicated two-pole, 40 A circuit breaker to a new/existing load center, or meter combination. This is connected to either a 240 V receptacle that the car charger plugs into or can be connected directly to the charger (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 UNli-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).

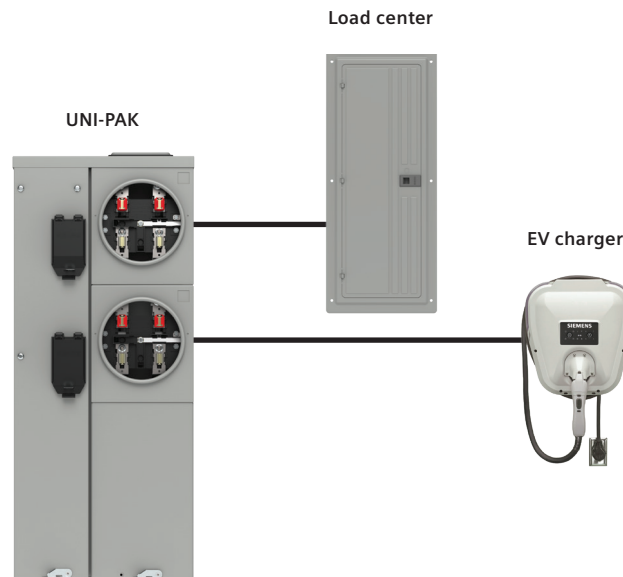
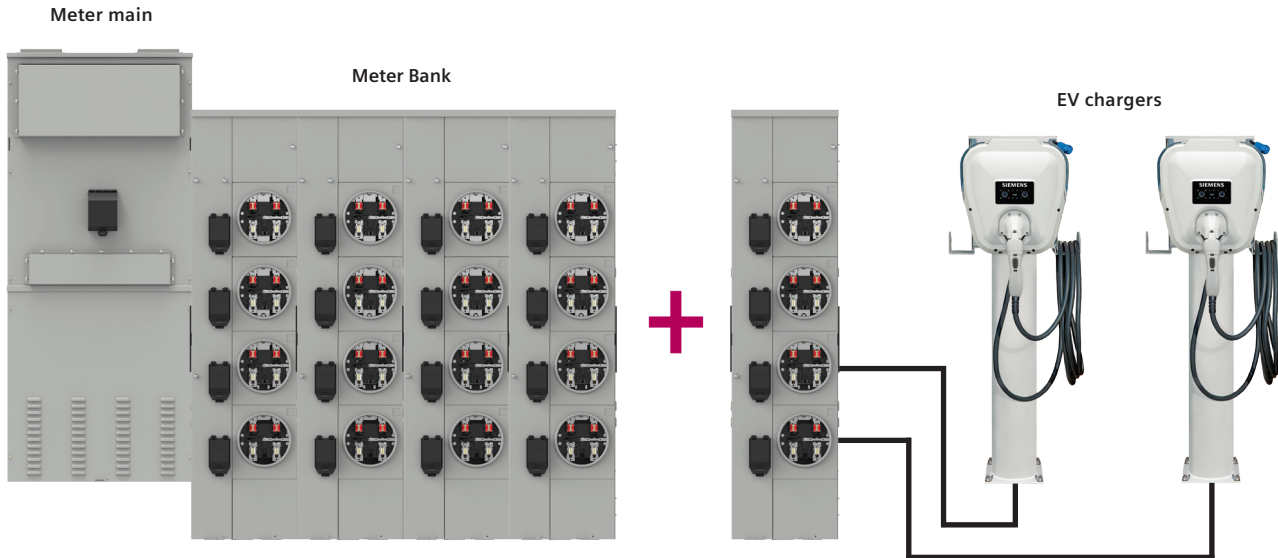


Figure 3

3. Condo / multifamily / group metering applications

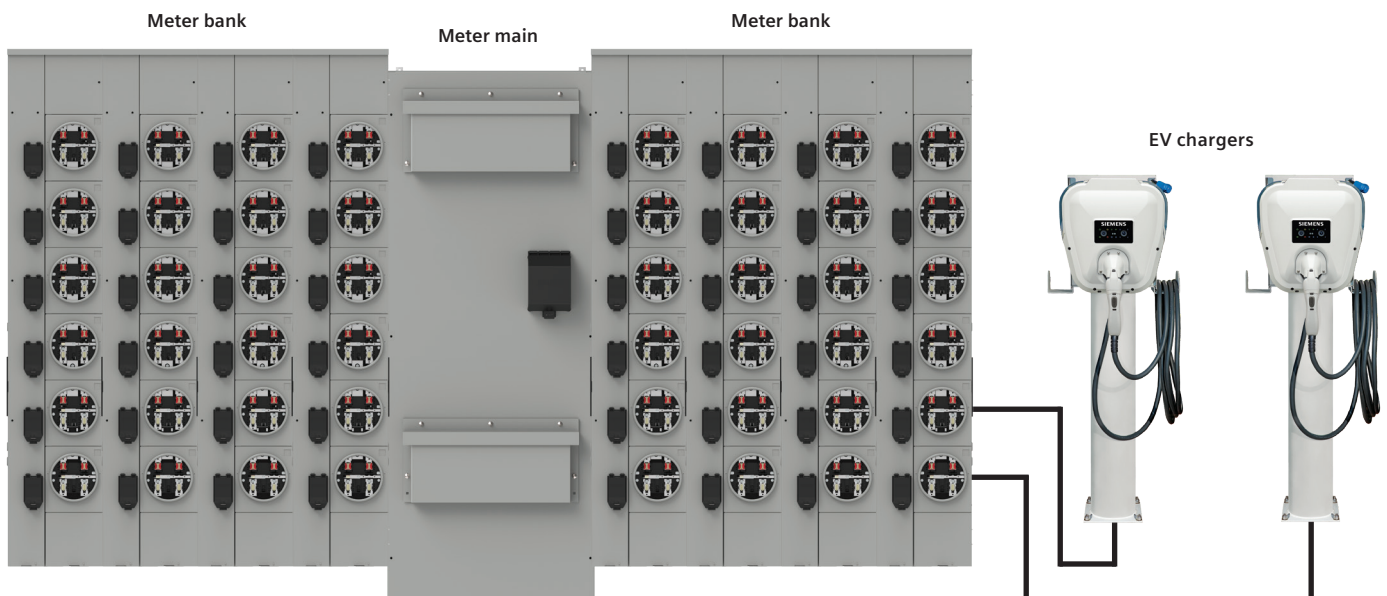
Figure 4



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



VersiCharge (hardwired):

- Indoor use only
- Hardwire install only
- 14-foot cord
- Communication option not available
- Buttons for pause
- 2/4/6/8 hours delay functionality on the front panel.

Catalog number: VC30GRYHW



VersiCharge (universal):

- Indoor/outdoor
- Plug or hardwire install
- 20-foot cord
- Communication option not available
- Buttons for pause
- 2/4/6/8 hours delay functionality on the front panel.

Catalog number: VC30GRYU



VersiCharge SG:

- Indoor/outdoor
- Plug or hardwire install
- 20-foot cord
- Wi-Fi enabled
- Revenue accurate meter
- Free cloud connection
- Free phone application.

Catalog number: VC30GRYUW



VersiCharge SG OCPP:

- Indoor/outdoor
- Plug or hardwire install
- 20-foot cord
- Wi-Fi enabled
- Revenue accurate meter
- Open Charge Point Protocol (OCPP) 1.6 for user access and payment management
- Open Automated Demand Response (ADR) 2.0B for demand response control
- Optional meter calibration
- Free cloud and Phone App.

Catalog number: VC30GRCPUW

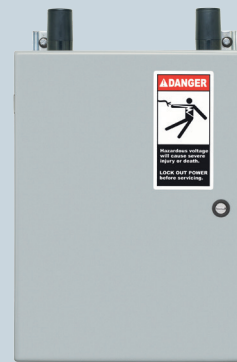


VersiCharge pedestals:

- Mounting post for all VersiCharge variants
- Robust construction for commercial, outdoor use
- Optional cable management systems
- Lockable housing (padlock not included)
- Included tamper resistant screws for VersiCharge charging unit.

Catalog numbers:

- VCPOSTGRY - Single
- VCPOSTGRY2 - Dual
- VCCMSSP - Cable management system



VersiComm:

- Cellular gateway for up to 25 EV chargers
- One data plan for aggregated data
- Indoor/outdoor
- 120 V and 240 V variants available
- Easy and versatile installation.

Catalog numbers:

- VC1COMMA - 120V
- VC2COMMA - 240V

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 universal, hardwired, and SG
- Primarily car market
- Home, workplace, longer-term stop areas
- Around 7.2 kW
- Six times faster than Level 1
- Built in the U.S.



DC fast charger Level 3 (L3):

- Name: VersiCharge Ultra™
- Primarily car market
- Gas stations, 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.



Published by Siemens Industry, Inc. 2019

Siemens Industry, Inc.
5400 Triangle Parkway
Norcross, GA 30092

For more information, including service or parts, please contact our
Customer Support Center.
Phone: +1 (800) 333-7421

usa.siemens.com/VersiCharge
Article No. SIDS-B40006-00-4AUS
Printed in USA
All Rights Reserved
© 2019, Siemens Industry, Inc.

The technical data presented in this document is based on an actual case or on as-designed parameters, and therefore should not be relied upon for any specific application and does not constitute a performance guarantee for any projects. Actual results are dependent on variable conditions. Accordingly, Siemens does not make representations, warranties, or assurances as to the accuracy, currency or completeness of the content contained herein. If requested, we will provide specific technical data or specifications with respect to any customer's particular applications. Our company is constantly involved in engineering and development. For that reason, we reserve the right to modify, at any time, the technology and product specifications contained herein.