

VersiCharge Inspector Checklist

Help take out the guess work when checking a Siemens VersiCharge EVSE System for UL and NEC compliance.

Renewable Energy Solutions

Required Checks

Branch Circuit

- Ensure the branch circuit feeding the VersiCharge has no other loads connected to it.
- Ensure that the VersiCharge is connected to the correct sized circuit breaker:
 - 40 A 2-Pole Breaker for 30 A VersiCharge Units
 - 90 A 2-Pole Breaker for 70 A VersiCharge units

*Utilizing the amperage adjustment switch does NOT allow users to de-rate the branch circuit breaker
- Verify correct wire gauge is used, based on VersiCharge amperage rating, type of conductor and length of run from supplying panel
 - Lugs are rated for copper conductors only
 - Refer to NEC® Chapter 9, Table 8 for wire size calculations
- Verify that Load Center or Distribution Panel board has sufficient capacity to operate the added load of the VersiCharge
 - 30 A devices will consume 7.2 kW of power
 - 70 A devices will consume 16.8 kW of Power

Location

- Verify that the VersiCharge is installed within the height restriction set forth in the NEC® Section 625.28
 - Indoor: 18 in. to 48 in. above floor level
 - Outdoor: 24 in. to 48 in. above parking surface

*VersiCharge in Rated NEMA 4 and can be installed indoors or outdoors
- Verify that the installation is not in the presence of flammable vapors
- Verify that the mounting is attached to a stud or other structure that will support the 20+ lb weight of the device

Connection

Cord-and-Plug Installations

*VersiCharge 30 A devices meet the requirements set forth in NEC® 625.18, 625.19 and 625.29, and therefore, according to Section 625.13, can be installed with a Cord-and-Plug System. 70 A VersiCharge devices MUST be hardwired.

- Verify that Cord-and-Plug connected device is a 30 A device
- Verify the plug location matches the associated part number:
 - VersiCharge part numbers ending with the letter 'R' can only be installed with a rear-fed plug when using a Cord-and-Plug System
 - VersiCharge part numbers ending with the letter 'B' can only be installed with a bottom-fed plug when using a Cord-and-Plug System
- Verify that the NEMA 6-50R Receptacle is installed correctly.

Hard-wired Installations

The VersiCharge can be hardwired into the electrical system by removing the installed cord, and attaching incoming conductors. Any VersiCharge can be hard-wired, from either the bottom or the rear, regardless of factory installed cord location

- Verify L1, L2, and Ground connections inside the VersiCharge are correctly wired
 - L1 and L2 connections should be torqued to 14.5 lb-in.
 - Ground connection should be torqued to 25 lb-in.
- Verify that strain relief fittings are used on incoming conductors
- Verify that all bottom-fed, hard wired installation have correct conduit and fittings for the installation location

Auxiliary Control (Alternate Input)

- Verify that any auxiliary control device is installed according to that devices manufacturer instructions.

Code References

- Siemens VersiCharge devices are listed in UL File # E348556
- NEC® and National Electrical Code® are Registered Trademarks of the National Fire Protection Association
- All NEC® Code References are to NEC® 2011

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