



**City of Santa Monica
Building and Safety Division**

Electric Vehicle Charger Guide

This list is to be used as a general guide.

It is not inclusive of all code requirements and inspection criteria.

Based on the 2016 California Electrical (CEC) Code Article 625

California Codes available at www.bsc.ca.gov

- Equipment construction
 1. Supply equipment shall have sufficient rating to supply loads served, which shall be considered a continuous load (existing panels rated less than 200AMP may require residential load calculations to justify suitability).
 2. Other than 15 and 20 amp/125 volt single phase equipment (portable), EV chargers shall be permanently connected and fastened in place with no exposed live parts (hardwired).
 3. Shall be marked “FOR USE WITH ELECTRIC VEHICLES” and either “Ventilation not required” or ‘ventilation required’ (based on manufacturers installation requirements). These markings shall be clearly visible after installation.
 - a. Required ventilation for indoor installations shall be mechanical, permanently installed, exhaust to the outdoors, and interlocked with the electric supply equipment to be energized during charging cycle.
- Electric vehicle coupler (charging wand) shall be:
 1. Non-interchangeable with wiring devices in other electrical systems
 2. Constructed and installed to guard against inadvertent contact by persons with parts made live by charger or battery
 3. Have a positive means to prevent unintentional disconnection
 4. Grounding pole is the first to make contact and last to break contact
 5. Shall be listed or labeled for the purpose
 6. Maximum four feet above floor level indoors (minimum 18”)
 7. Maximum four feet above parking surface outdoors (minimum 24”)
- Charger cable
 1. Overall length not over 25 feet without cable management system
 2. Interlocked such that uncoupling results in de-energizing of cable
 3. Automatically de-energized upon exposure to strain on cable which may result in exposure to live parts
- Overcurrent protection and supply conductors
 1. Sized for continuous duty and 125% of maximum load
- Disconnecting means
 2. Installed in a readily accessible location
 3. Capable of being locked in the open position