



## COMMUNITY DEVELOPMENT DEPARTMENT | Building Division

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### Checklist for 1 & 2 Family Residential Electric Vehicle Charging Station Article 625 – 2022 California Electrical code (CEC)

#### General Requirements:

##### Level 1 Charger:

- 110V dedicated 20-amp circuit.
- No electrical plans required.

##### Level 2 Charger:

- 220V dedicated circuit.
- Cut sheets for equipment are required.
- Load calculations are required.

#### Specific Requirements:

Check One	Type of Charging Station(s) Proposed	Power Levels (proposed circuit rating)
<input type="checkbox"/>	Level 1	110/120 volt alternating current (VAC) at 15 or 20 Amps
<input type="checkbox"/>	Level 2 - 3.3 kilowatt (kW) (low)	208/240 VAC at 20 or 30 Amps
<input type="checkbox"/>	Level 2 – 7.2kW (medium)	208/240 VAC at 40 Amps
<input type="checkbox"/>	Level 2 – 10kW (high)	208/240 VAC at 50 or 60 Amps

**ELECTRICAL LOAD CALCULATION WORKSHEET**

- 1) Is an electrical load calculation worksheet included? (Article 220, 2022 CEC) Yes  No
- 2) Based on the load calculation worksheet, is a new electrical service panel upgrade required?  
Yes  No 
  - a. If yes to Q2, do plans include the electrical service panel upgrade? Yes  No
  - b. If yes to Q2, has the Healdsburg Electric Department reviewed and approved the installation and confirmed the necessary utility work? Yes  No
- 3) Is the charging circuit appropriately sized for a continuous load? Overcurrent protection for circuits supplying electric vehicle supply equipment shall be sized for continuous duty and shall have a rating of not less than 125% of the maximum load of the EVSE (i.e. if the maximum load of the charger is 40A then a 50A breaker is required). Yes  No

**COMPLIANCE WITH 2022 CALIFORNIA ELECTRICAL CODE**

- 1) Does the plan include EVCS manufacturer's specs and installation guidelines? Yes  No
- 2) Does the electrical plan identify the amperage and location of existing electrical service panel?  
Yes  No 
  - a. If yes to Q2, does the existing panel schedule show room for additional breakers?  
Yes  No
  - b. Are sizes for the conduit and conductor included? Yes  No
- 3) Does the charging equipment have a Nationally Recognized Testing Laboratory (NRTL) approved listing mark? (UL 2202-2009/UL 2594-2013) Yes  No
- 4) If trenching is required, is the trenching detail called out? Yes  No 
  - a. Is the trenching in compliance of minimum cover requirements for wiring methods or circuits? (18" min. cover over PVC conduit per CEC Table 300.50) Yes  No

**COMPLIANCE WITH 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE**

- 1) Do CALGreen EV Readiness installation requirements apply to this project? (Is this a new construction of a one-family or two-family dwelling?) Yes  No 
  - a. If yes to Q1, each dwelling must install a listed raceway to accommodate a dedicated 208/240-volt branch circuit in accordance with section 4.106.4.

**STATEMENT OF COMPLIANCE**

By my signature, I attest that the information provided is true and accurate.

Job Address: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

In addition to this document, you will also need to provide a copy of the manufacturer’s specifications for the Level 2 charger you are installing.

Note: This is a voluntary compliance alternative, and you may wish to hire a qualified individual or company to perform a thorough evaluation of your electrical service capacity in lieu of this alternative methodology. Use of this electrical load calculation estimate methodology is at the user’s risk and carries no implied guarantee of accuracy. Users of this methodology and these forms are advised to seek professional assistance in determining the electrical capacity of a service panel.

