



## ELECTRIC VEHICLE SERVICE EQUIPMENT OVER THE COUNTER PERMIT WORKSHEET

This worksheet may be used to obtain an electrical permit to install Electric Vehicle Service Equipment (EVSE) in a garage or carport serving a single family home, or within a private garage serving a condominium provided the electrical service or subpanel serving the installation is rated for 100 amps or more.

**Note:**

1. Permits for battery chargers or EVSE installations within common area garages or parking areas require a plan to be submitted for review.
2. installations served by an electrical service of subpanel rated for less than 100 amps cannot be permitted using this worksheet as justification, using the Standard Method of Part III Feeders and Service Load Calculations of Article 220 of the California Electrical Code is required.

### PROJECT ADDRESS

### THE PROPOSED INSTALLATION WILL SERVE (CHECK ONE)

- SINGLE FAMILY DWELLING;** The location of the EVSE is within a private garage or carport.
- CONDOMINIUM;** The location of the EVSE is within a private garage.

### ELECTRIC SERVICE (Check the size of the electric service or subpanel serving the proposed installation)

- 100 AMPS       200 AMPS       OTHER; Specify:

**ELECTRIC VEHICLE SERVICE EQUIPMENT** - The EVSE must be listed and installed per its listing and rated for outdoor use if not within an enclosed garage.

### EVSE NAMEPLATE RATING (CHECK ONE)

- 20 AMPS/120 VOLTS       20 AMPS/240 VOLTS       40 AMPS/240 VOLTS

If the service size is 100 amps or greater, and the EVSE does not exceed 20 amps, no additional information is necessary.

If the EVSE exceeds 20 amps, complete the following EVSE LOAD CALCULATION WORKSHEET to demonstrate the current electrical service or subpanel capacity is sufficient.

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
DATE

\_\_\_\_\_  
PRINT NAME



# EVSE LOAD CALCULATION WORKSHEET

**PROJECT ADDRESS**

**GENERAL LIGHTING LOAD**

	Your home's square footage _____	x 3 VA= _____
Small appliance branch circuits (2 min.)	1500 VA x _____	circuits _____
Laundry circuit	1500 VA x _____	circuit(s) _____

**APPLIANCES & EQUIPMENT** - Values are minimums, use actual values if known to be greater. Enter N/A if not present at project site.

Garage door opener	800	_____
Microwave (in dedicated space)	1300	_____
Compactor	1000	_____
Dishwasher	1200	_____
Disposal	800	_____
Proposed EVSE circuit	Manufactures wattage x 125%	_____
Pool/Spa pump 1 horsepower	1920	_____
Pool/Spa pump 1.5 horsepower	2400	_____
Pool/Spa pump 2 horsepower	2880	_____
FAU	1200	_____
_____		_____
_____		_____
_____		_____
Attach additional sheets if needed.		

	<b>Subtotal (A)</b>	_____
<b>Subtotal (A) minus 10,000 VA</b>	x 0.40 =	_____
		plus 10,000
	<b>Subtotal (B)</b>	_____
<b>Total A/C load, use nameplate rating or A/C circuit breaker rating (C)</b>		_____
	<b>D=(B) + (C)</b>	_____

Total demand is  $D / 240V =$  \_\_\_\_\_ amps. If this value is less than the rating of the existing electrical service or subpanel **NO** service or subpanel upgrade is necessary. If the value is greater, an EVSE permit may only be issued if a panel upgrade is included with the work; a subpanel upgrade requires a plan submittal.

**PLAN CHECKER NOTES**