COMMUNITY DEVELOPMENT
Building and Safety

ELECTRIC VEHICLE CHARGING STATION (EVCS) PERMIT WORKSHEET

Complete worksheet to obtain an electrical permit to install Electric Vehicle Charging Station (EVCS) in a garage or carport serving a single family home, or within a private garage serving a condominium provided the electrical panel serving the installation is rated for 100 Amps or more and it is not connected to a common main panel.

NOTE: 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 [Art. 220.82(A)].

PROJECT ADDRESS

THE PROPOSED INSTALLATION WILL SERVE (Check one)

☐ SINGLE FAMILY DWELLING; The location of the EVCS is within a private garage or carport.

☐ CONDOMINIUM; The location of the EVCS is within a private garage and electrical panel serving the installation is not connected to a common main panel.

ELECTRIC SERVICE (Check the size of the electric service)

☐ 100 Amps ☐ 200 Amps ☐ OTHER; Specify: _____

ELECTRIC VEHICLE CHARGING STATION - The EVCS must be listed and installed per its listing and rated for outdoor use if not within an enclosed garage.

EVCS NAMEPLATE RATING (Check one)

☐ 20 Amps/120 volts ☐ 20 Amps/240 volts ☐ OTHER; Specify: _____

Complete the following EVCS LOAD CALCULATION WORKSHEET to demonstrate the current electrical service or subpanel capacity is sufficient.

If EVSE connects to a subpanel, attach a subpanel load calculation to the EVSE LOAD CALCULATION WORKSHEET.

_____ _____
SIGNATURE DATE

_____
PRINT NAME

EVCS 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 AND EQUIPMENT (Use default values in italics or attach cut sheet.)

MICROWAVE (in dedicated space)	*1,300 W*	
COMPACTOR	*1,000 W*	
DISHWASHER	*1,200 W*	
DISPOSAL	*800 W*	
ELECTRIC OVEN	*2,000 W*	
RANGE	*8,000 W*	
WHOLE HOUSE FAN	*500 W*	
ELECTRIC CLOTHES DRYER (if not connected to the laundry branch circuit)	*5,000 W*	
VEHICLE CHARGING STATION (shall be calculated @125%)	*8,300 W (50 Amps)*	
SUBPANEL LOADS, VA (use when the EVCS is connected to subpanel)		
WATER HEATER (nameplate rating)		
POOL APPLIANCES (nameplate rating)		
Sum of nameplate VA rating of any other appliances or ANY motor fastened in place and not included above.		

SUBTOTAL (A) _____

SUBTOTAL (A) minus 10,000 VA _____ X 0.40 = _____

PLUS 10,000

SUBTOTAL (B) _____

TOTAL A/C LOAD, USE NAMEPLATE VA RATING OR A/C CIRCUIT BREAKER RATING **SUBTOTAL (C)** _____

SUBTOTAL (D) = (B)+(C) _____

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 EVCS permit may only be issued if a panel upgrade is included with the work.

PLAN CHECKER NOTES