ELECTRICAL VEHICLE SERVICE EQUIPMENT

This worksheet may be used to obtain an electrical permit to install Electrical 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 or sub-panel rated for less than 100 Amps can not be permitted using this worksheet as justification, using the Standard Method of Part III Feeders and Service Load Calculations of Art. 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 PRINT NAME

_____

DATE

CITY OF LA PALMA

ELECTRIC VEHICLE SERVICE EQUIPMENT WORKSHEET

HELP FOR THE HOMEOWNER
LA PALMA BUILDING AND SAFETY

Paul Melby, CBO 6/4/12
Building Official: Date

EVSE LOAD CALCULATION WORKSHEET (Calculations per Section 220.83(A) CEC 2010)

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

Microwave (in dedicated space)	1300
Compactor	1000
Dishwasher	1200
Disposal	800
Proposed EVSE circuit	7200
Pool/Spa Pump 1 hp	1920
Pool/Spa Pumb 1.5 hp	2400
Pool/Spa Pump 2 hp	2880
A/C Load	6000
_____	_____
_____	_____

*Attach additional sheets if required

Subtotal (A)_____

Subtotal (A) minus 8000 VA _____ **x 0.40=** _____
plus 8000 VA

Total (B) _____

Total demand is B/240V = _____Amps. If this value is less that 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