



Development Services Department  
 Building Division  
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# Electric Load Worksheet

Address: \_\_\_\_\_ Date: \_\_\_\_\_

Main Electric Panel Service Size: Existing \_\_\_\_\_ (Amps) / New (if applicable) \_\_\_\_\_ (Amps)

Quantity of Existing Subpanels: \_\_\_\_\_ Quantity of New Subpanels: \_\_\_\_\_ Gas Furnace (Y/N) \_\_\_\_\_  
 Breaker Size(s) feeding subpanel(s)? \_\_\_\_\_ Wires Size(s) feeding subpanel(s)? \_\_\_\_\_

## A. Calculate Habitable<sup>1</sup> Square Footage

\_\_\_\_\_ (Existing S.F.) + \_\_\_\_\_ (New S.F., if any) = \_\_\_\_\_ Total Habitable Square Footage

## B. Identify General Loads

General Lighting and Use Receptacles:	_____	Total Habitable Sq. Ft. x 3	= _____	total watts
Kitchen Small Appliance Branch Circuits:	_____	(Quantity, Min. 2) x 1500	= _____	total watts
Bathroom Small Appliance Branch Circuits:	_____	(Quantity, Min. 1) x 1500	= _____	total watts
Range:	_____	(Nameplate Rating) x 1	= _____	total watts
Oven:	_____	(Nameplate Rating) x 1	= _____	total watts
Water Heater:	_____	(Nameplate Rating) x 1	= _____	total watts
Dishwasher:	_____	(Nameplate Rating) x 1	= _____	total watts
Garbage Disposal:	_____	(Nameplate Rating) x 1	= _____	total watts
Washer:	_____	(Nameplate Rating) x 1	= _____	total watts
Dryer*:	_____	(Nameplate Rating*) x 1	= _____	total watts*
Total Subpanel Load <sup>2</sup> :	_____	(Amperage Rating) x 240	= _____	total watts
Motor Loads:	_____	(Nameplate Rating) x 1	= _____	total watts
Other Loads**:	_____	(Nameplate Rating**) x 240	= _____	total watts**

\*For Electric Dryer use 5,000 watts minimum, CEC 220.54

\*\*For EVSE use 7200 watts minimum, CEC 220.57

Add total watts together (from above) = \_\_\_\_\_ Total B

## C. Identify Largest of the Following Six Heating and Air Conditioning (HAC) Loads

Electric Thermal Storage:	_____	(Nameplate Rating) x 1	= _____	total watts
Air Conditioning and Cooling:	_____	(Nameplate Rating) x 1	= _____	total watts
Heat Pump (without any supplemental electric heating):	_____	(Nameplate Rating) x 1	= _____	total watts
3 or Less <sup>3</sup> Electric Space Heating Units:	_____	(Nameplate Rating) x 0.65	= _____	total watts
4 or more <sup>3</sup> Electric Space Heating Units:	_____	(Nameplate Rating) x 0.40	= _____	total watts
Central Electric Space Heating System <sup>4</sup> :	_____	(Combined Nameplate Rating <sup>4</sup> )	= _____	total watts

Enter single largest Heating and Air Conditioning Load (from above) = \_\_\_\_\_ Total C

## D. Calculate Total Service Load

$\frac{\text{Total B (from above)}}{\text{Total B (from above)}} - 10,000 \text{ watts} \times 0.40 + 10,000 \text{ watts} + \frac{\text{Total C (from above)}}{\text{Total C (from above)}} \div 240 = \text{_____ Total Amps}$

Signature \_\_\_\_\_

Print Name \_\_\_\_\_

State License Number (if applicable) \_\_\_\_\_

<sup>1</sup>Habitable square footage includes the floor area for each floor, calculated from the outside dimensions of the dwelling unit. It does not include open porches, garages, or unused or unfinished spaces not adaptable for future use as a habitable room or occupiable space.

<sup>2</sup>Add all subpanel loads here, that serve the specific dwelling unit to be calculated, that are not already included elsewhere on this form.

<sup>3</sup>Separately controlled.

<sup>4</sup>For Central Electric Space Heating Systems, add 100% of the heat pump compressor's nameplate rating plus 65% of the supplemental electric heating's nameplate rating. If the heat pump compressor is prevented from operating at the same time as the supplementary heat, it does not need to be added to the supplementary heat for the total central space heating load.