City of SACRAMENTO
Community Development

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Sacramento, CA 95811
Help Line: 916-264-5011
www.cityofsacramento.gov/cdd

Electrical Load Calculation Worksheet

2025 CEC 220.82 (100 AMP Minimum)

THIS FORM SHALL BE ON THE JOB SITE AT ALL TIMES

Permit # _____ **Date:** _____

Contractor/Owner: _____ **Size of service panel:** _____ **AMPS**

Job Address: _____ **Total SF:** _____

Phone # _____ **Email:** _____

ITEM		WATTS	*EXAMPLES
_____Sq.Ft. @ 3 watts per Sq.Ft.			**1) - A/C with gas heat**
20 amp appliance circuits @ 1,500 watts each			- compressor 20 amps
Laundry @ 1,500 watts (min)			- fan(s) 5 amps
Range (NPR - nameplate rating)	Gas: Yes☐ No☐		TOTAL: 25 amps x 240 volts = 6,000 watts
Oven (NPR)	Gas: Yes☐ No☐		**2) - A/C with 5 kW electric heater**
Cooking Units (NPR)	Gas: Yes☐ No☐		- compressor 20 amps
Water Heater (NPR)	Gas: Yes☐ No☐		- fan(s) 5 amps
Dryer @ 5,000 watts (min)	Gas: Yes☐ No☐		TOTAL: 25 amps x 240 volts = 6,000 watts
Dishwasher (NPR)			- 5,000 watt heater x 65% = 3,250 watts
Disposal (NPR)			- Use larger of A/C or heater - i.e., 6,000 watts
Motors (NPR)			**3) - A/C with 10 kW electric heater**
Other (NPR)			- compressor 20 amps
Other (NPR)			- fan(s) 5 amps
			TOTAL: 25 amps x 240 volts = 6,000 watts
SUBTOTAL:			- 10,000 watt heater x 65% = 6,500 watts
			- Use larger of A/C or heater - i.e., 6,500 watts
1st 10,000 watts of SUBTOTAL @ 100%			**4) - A/C with heat pump**
Remaining_____ watts @40%			- compressor 20 amps
Largest of A/C or electric heater or heat pump*			- fan(s) 5 amps
Electric vehicle supply equipment (EVSE)			
			SUBTOTAL: 25 amps x 240 volts = 6,000 watts
TOTAL WATTS:			- 5,000 watt heat strips @ 65% = 3,250 watts
TOTAL WATTS DIVIDED BY 240 VOLTS =		**AMPS**	TOTAL: 9,250 watts

** Use largest of 100% of air conditioner or 65% of the heater, or when the residence has a heat pump, add 65% of Auxiliary heat strips to 100% of air conditioner/heat pump*