City of SACRAMENTO
Community Development

300 Richards Blvd., 3rd Floor
Sacramento, CA 95811

Help Line: 916-264-5011
CityofSacramento.org/dsd

Electrical Load Calculation Worksheet

2016 C.E.C 220.82 (100 AMP Minimum)

THIS SHALL BE ON THE JOB SITE AT ALL TIMES **SUBMIT TWO COPIES**

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
Range (NPR - nameplate rating)	Gas: Yes ☐ No ☐		- fan(s) 5 amps
Oven (NPR)	Gas: Yes ☐ No ☐		TOTAL 25 amps x 240 volts = 6,000 watts
Cooking Units (NPR)	Gas: Yes ☐ No ☐		2) - A/C with 5 kw electric heater
Water Heater (NPR)	Gas: Yes ☐ No ☐		- compressor 20 amps
Dishwasher (NPR)			- fan(s) 5 amps
Disposal (NPR)			TOTAL 25 amps x 240 volts = 6,000 watts
Washer @ 1,500 watts (min)	Gas: Yes ☐ No ☐		- 5,000 watt heater x 65% = 3,250 watts
Dryer @ 5,000 watts (min)			- Use larger of A/C or heater - i.e. - 6,000 watts
Motors (NPR)			3) - A/C with 10 kw electric heater
Electric vehicle supply equipment (NPR)			- compressor 20 amps
Other (NPR)			- fan(s) 5 amps
Other (NPR)			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
TOTAL WATTS:			SUBTOTAL 25 amps x 240 volts = 6,000 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 residence has a heat pump, add 65% of auxiliary heat strips to 100% of air conditioner / heat pump*