

## Electrical Load Calculation Worksheet

### 2022 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.                                                            |             | <b>1) - A/C with gas heat</b>                     |
| 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 <input type="checkbox"/> No <input type="checkbox"/> |             | TOTAL: 25 amps x 240 volts = 6,000 watts          |
| Oven (NPR) Gas: Yes <input type="checkbox"/> No <input type="checkbox"/>                     |             | <b>2) - A/C with 5 kW electric heater</b>         |
| Cooking Units (NPR) Gas: Yes <input type="checkbox"/> No <input type="checkbox"/>            |             | - compressor 20 amps                              |
| Water Heater (NPR) Gas: Yes <input type="checkbox"/> No <input type="checkbox"/>             |             | - fan(s) 5 amps                                   |
| Dryer @ 5,000 watts (min) Gas: Yes <input type="checkbox"/> No <input type="checkbox"/>      |             | 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)                                                                                 |             | <b>3) - A/C with 10 kW electric heater</b>        |
| Other (NPR)                                                                                  |             | - compressor 20 amps                              |
| Other (NPR)                                                                                  |             | - fan(s) 5 amps                                   |
|                                                                                              |             | TOTAL: 25 amps x 240 volts = 6,000 watts          |
| <b>SUBTOTAL:</b>                                                                             |             | - 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%                                                          |             | <b>4) - A/C with heat pump</b>                    |
| 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       |
| <b>TOTAL WATTS:</b>                                                                          |             | - 5,000 watt heat strips @ 65% = 3,250 watts      |
| <b>TOTAL WATTS DIVIDED BY 240 VOLTS =</b>                                                    | <b>AMPS</b> | 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*