



Community Development Department
Building & Safety Division

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Residential Electrical Load Calculation

Calculations are based on the 2016 California Electrical Code (CEC), Article 220 optional method.

	Quantity			Load	Results
General Lighting	<input type="text"/>	Sq. Ft.	X	3 VA/Sq. Ft.	<input type="text"/>
Small Appliance	<input type="text"/>	each	X	1500 VA	<input type="text"/>
Laundry	<input type="text"/>	each	X	1500 VA	<input type="text"/>
Dishwasher	<input type="text"/>	each	X	1200 VA	<input type="text"/>
Disposal	<input type="text"/>	each	X	800 VA	<input type="text"/>
Microwave	<input type="text"/>	each	X	1000 VA	<input type="text"/>
Compactor	<input type="text"/>	each	X	1000 VA	<input type="text"/>
Freezer	<input type="text"/>	each	X	1200 VA	<input type="text"/>
Cook top	<input type="text"/>	each	X	4000 VA	<input type="text"/>
Oven – single	<input type="text"/>	each	X	8000 VA	<input type="text"/>
Oven – double	<input type="text"/>	each	X	12000 VA	<input type="text"/>
Range	<input type="text"/>	each	X	12000 VA	<input type="text"/>
Dryer	<input type="text"/>	each	X	5000 VA	<input type="text"/>
Spa (electrical)*	<input type="text"/>	each	X	25000 VA	<input type="text"/>
Pool	<input type="text"/>	each	X	4800 VA	<input type="text"/>
Sum of Loads:					<input type="text"/>
First 8000 @ 100%:					<input type="text" value="8000"/>
Remainder @ 40%:					<input type="text"/>
Total VA:					<input type="text"/>
AC	AC @ 100%			Name Plate Rating:	<input type="text"/>
Total VA ÷ 230 volts:					<input type="text"/>
Total Load:					<input type="text"/> amps

General Lighting is total square footage of dwelling times 3 VA per foot.

*If Spa has gas heater use load of 8000 VA.

Values are average loads; if the known load is available it can be considered by the Building Official. Name plate ratings of appliances may be used.