



City of San Ramon
Building and Safety Services

7000 Bollinger Canyon Rd, San Ramon, CA 94583

Office: (925) 973-2580 Fax (925) 838-2821

E-mail: Building@sanramon.ca.gov

Website: www.sanramon.ca.gov

Updated: January 2024

Electrical Load Calculations
Single Family Dwelling

Job Address: _____

Buss _____
Main _____
Load _____

Quantity	Load	Min. Rating	Column 1	Column 2	Column 3
	Dwelling Square Footing	3 Watts / sq.ft.			
	Appliance Circuit (2 Min.)	1500 watts ea.			
	Electric Cook Top	5100			
	Electric Oven	8000			
	Dishwasher	1200			
	Disposal	800			
	Microwave	1600			
	Compactor	1000			
	Instant Hot Water	1500			
	Electric Dryer	5000			
	Washer (laundry)	1500			
	Forced Air Unit	1000			
	Air Conditioner				
	Pool Equipment / Spa				
	EV Charger				
	TOTALS				

First 10,000 watts at 100% _____ 10,000

(Column 1 minus 10,000) x 40% _____

Column 2 at 100% _____

Column 3 at 125% _____

Total Watts: _____

Total Amps: _____

Based on Section 220 of National Electric Code

Divide watts by 240 volts for amp rating of service



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EXAMPLE

Job Address: 123 Main Street

Buss	200
Main	200
Load	166

Quantity	Load	Min. Rating	Column 1	Column 2	Column 3
1 100	Dwelling Square Footing	3 Watts / sq.ft.	12300		
2	Appliance Circuit (2 Min.)	1500 watts ea.	3000		
1	Electric Cook Top	5100	5100		
1	Electric Oven	8000	8000		
1	Dishwasher	1200	2000		
1	Disposal	800	1000		
1	Microwave	1600	1600		
	Compactor	1000			
	Instant Hot Water	1500			
1	Electric Dryer	5000	5000		
1	Washer (laundry)	1500	1500		
	Forced Air Unit	1000			
1	Air Conditioner			6000	
	Pool Equipment / Spa				
1	EV Charger				9600
	TOTALS				

First 10,000 watts at 100%	10,000
(Column 1 minus 10,000) x 40%	11800
Column 2 at 100%	6000
Column 3 at 125%	12000
Total Watts:	39800
Total Amps:	166

Based on Section 220 of National Electric Code

EXAMPLE

Divide watts by 240 volts for amp rating of service