



# DEPARTMENT OF RESOURCE MANAGEMENT

## Building Division

1855 Placer Street, Suite 102

Redding, California 96001

Phone: (530) 225-5761 Fax: (530) 245-6468

Inspection Request Line: (530) 244-5068

Web: [shastacounty.gov/resource-management](http://shastacounty.gov/resource-management) Email: [resourcemanagement@co.shasta.ca.us](mailto:resourcemanagement@co.shasta.ca.us)

### Standard Electrical Load Calculation for Single Family Dwelling

(Rev. 01-03-23)

(This form is for service ratings of 120/240V, 225 Amps Max)

Property Address: \_\_\_\_\_ Permit # \_\_\_\_\_

Total Floor Area of Dwelling (CEC 220.11) \_\_\_\_\_ Square Feet

FACTOR	QUANTITY			VOLT AMPERES (VA)
<b>GENERAL LIGHTING</b>				
1. General Lighting (SQFT X 3 VA/SQ FT) (CEC 220.14(J))	3 X			
2. Small Appliance Circuits (1500 VA per circuit) (CEC 220.52(A)) (minimum 2)	1500 X			
3. Laundry Circuit (1500 VA per circuit) (CEC 220.52(B))	1500 X			
4. Total General Lighting Load (Add lines 1, 2 & 3):				
5. First 3000 VA @ 100%:				3000
6. Total General Lighting Load – 3000 = _____ @ 35%=				
7. Net General Lighting Load (Per CEC 220.42) (Add lines 5 & 6):				
<b>*FIXED APPLIANCES</b> (if insufficient space, use back):				
• Garbage Disposal		YES	NO	
• Bathroom Fan				
• Microwave				
• Dishwasher				
• Other:				
• Other:				
Total				
8. 3 or less Appliances, Total Appliance VA; 4 or more Appliances, 75% of Total Appliance VA (CEC 220.53):				
<b>*OTHER LOADS</b> (including motors, EV charger(s), etc.)				
9. Electric Range (8000VA or Nameplate)**		YES	NO	Nameplate Rating (VA)
10. HVAC				
11. Electric Oven				
12. Electric Dryer (5000 VA minimum)**				
13. Electric Vehicle Charger		✓		
14. Other:				
15. Other:				
16. 25% of largest motor (CEC 430.24)				
<b>Total Service Load Volt-Amperes (VA)</b> (Add lines 7, 8 & 9 thru 16) =				
<b>Total Service Load Volt-Amperes / 240-volts =</b> _____ Amperes				
<b>***Service Rating (Amperes) =</b> _____				

\* For every "YES" answer, indicate VA rating of equipment

\*\* Nameplate rating must be used if larger

\*\*\* Service Rating shall be greater than or equal to the Service load