



DEPARTMENT OF RESOURCE MANAGEMENT

Building Division

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Standard Electrical Load Calculation for Single Family Dwelling (Rev. 06-25-20)

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

Property Address: _____ Permit # _____

Total Floor Area of Dwelling (CEC 220.12) _____ Square Feet

FACTOR	QUANTITY			VOLT AMPERES (VA)
GENERAL LIGHTING				
1. General Lighting (SQFT X 3 VA/SQ FT (CEC TBL 220.12))	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):				
*FIXED APPLIANCES (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):				
*OTHER LOADS (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)				
Total Service Load Volt-Amperes (VA) (Add lines 7, 8 & 9 thru 16) =				
Total Service Load Volt-Amperes / 240-volts = _____ Amperes				
***Service Rating (Amperes)= _____				

* 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