

## NEC Standard Electrical Load Calculation for Single Family Dwellings

(Only for Service Ratings of 120/240V, 225 Amps Max)

Owner: \_\_\_\_\_ Location: \_\_\_\_\_

Total Floor Area of Dwelling (NEC 220.12) \_\_\_\_\_ SQFT.

Factor	Quantity	Volt Amperes (VA)
<b>“General Lighting”</b>		
1. General Lighting (SQFT X 3 VA/SQ FT (Table 220.12))	3 X sqft.	
2. Small Appliance Circuits (1500 VA per circuit) (NEC 220.52(A)) (minimum 2)	1500 X	
3. Laundry Circuit (1500 VA per circuit) (NEC 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. <b>Net General Lighting Load</b> (Per NEC 220.42) (Add lines 5 & 6):		
<b>*Fixed Appliances(if insufficient space, use back):</b>		
	YES	NO
• Garbage Disposal	<input type="checkbox"/>	<input type="checkbox"/>
• Bathroom Fan	<input type="checkbox"/>	<input type="checkbox"/>
• Microwave	<input type="checkbox"/>	<input type="checkbox"/>
• Dishwasher	<input type="checkbox"/>	<input type="checkbox"/>
• Other:	<input type="checkbox"/>	<input type="checkbox"/>
• Other:	<input type="checkbox"/>	<input type="checkbox"/>
Total		
8. 3 or less Appliances, Total Appliance VA; 4 or more Appliances, 75% of Total Appliance VA (NEC 220.53):		
<b>*Other Loads (including motors, EV charger(s), etc.)</b>		
	YES	NO
9. Electric Range (8000VA or Nameplate)**	<input type="checkbox"/>	<input type="checkbox"/>
10. HVAC	<input type="checkbox"/>	<input type="checkbox"/>
11. Electric Oven	<input type="checkbox"/>	<input type="checkbox"/>
12. Electric Dryer (5000 VA minimum)**	<input type="checkbox"/>	<input type="checkbox"/>
13. Electric Vehicle Charger	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14. Other:	<input type="checkbox"/>	<input type="checkbox"/>
15. Other:	<input type="checkbox"/>	<input type="checkbox"/>
16. <b>25% of largest motor (NEC 430.24)</b>		
<b>Total Service Load Volt-Amperes (VA) (Add lines 7, 8 &amp; 9 thru 16) =</b>		
<b>Total Service Load Volt-Amperes / 240-volts =            Amperes</b>		
<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

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