

NEC Standard Electrical Load Calculation for Single Family Dwellings

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

Owner: Susan Stafford Location: 365 Will Lucas Rd Linden, NC

Total Floor Area of Dwelling (NEC 220.12) ~~1800~~ 1680 SQFT.

Factor	Quantity	Volt Amperes (VA)
"General Lighting"		
1. General Lighting (SQFT X 3 VA/SQ FT (Table 220.12))	3 X <u>1680</u> sqft.	5040
2. Small Appliance Circuits (1500 VA per circuit) (NEC 220.52(A)) (minimum 2)	1500 X <u>2</u>	3000
3. Laundry Circuit (1500 VA per circuit) (NEC 220.52(B))	1500 X <u>1</u>	1500
4. Total General Lighting Load (Add lines 1, 2 & 3):		
5. First 3000 VA @ 100%:		3000
6. Total General Lighting Load - 3000 = <u>2040</u> @ 35% =		714
7. Net General Lighting Load (Per NEC 220.42) (Add lines 5 & 6):		3714
*Fixed Appliances(if insufficient space, use back):		
	YES	NO
• Garbage Disposal		X
• Bathroom Fan	X	250
• Microwave	X	1800
• Dishwasher	X	1800
• Other:		
• Other:		
Total		3850
8. 3 or less Appliances, Total Appliance VA; 4 or more Appliances, 75% of Total Appliance VA (NEC 220.53):		3850
*Other Loads (including motors, EV charger(s), etc.)		
	YES	NO
9. Electric Range (8000VA or Nameplate)**	X	X
10. HVAC	X	6250
11. Electric Oven	X	3500
12. Electric Dryer (5000 VA minimum)**	X	5000
13. Electric Vehicle Charger	X	X
14. Other:		X
15. Other:		X
16. 25% of largest motor (NEC 430.24)		
Total Service Load Volt-Amperes (VA) (Add lines 7, 8 & 9 thru 16) =		<u>22314</u>
Total Service Load Volt-Amperes / 240-volts =		<u>92.98</u> Amperes
***Service Rating (Amperes) =		<u>200 A</u>

* 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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