

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)
"General Lighting"		
1. General Lighting (SQFT x 3VA/SQ FT (Table 220.12))	3 X _____ sqft	
2. Small Appliance Circuits (1500 VA per circuit) NEC 220.52(A)) (minimum 2)	1500 X 2	3000
3. Laundry Circuit (1500 VA per circuit) NEC 220.52(B))	1500 X 1	1500
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 NEC 220.42) (Add lines 5 & 6):		
*Fixed Appliances (if insufficient space, use back):		
• Garbage Disposal 900 VA	YES	NO
• Bathroom Fan 250 VA		
• Microwave 1500 VA		
• Dishwasher 1200 VA		
• Other: _____		
• Other: _____		
Total		
8. 3 or less Appliances, Total Appliance VA; _____		
4 or less Appliances, 75% of Total Appliance VA (NEC 220.53): _____		
*Other Loads (including motors, EV charger(s), etc.)		
	YES	NO
9. Electric Range (8000VA or Nameplate)**		
10. HVAC 1800 VAPERTON		
11. Electric Oven SINGLEWALL:4800 VA DOUBLE WALL 8000 VA		
12. Electric Dryer (5000 VA minimum)**		
13. Electric Vehicle Charger		
14. Other: _____		
15. Other: _____		
16. 25% of largest motor (NEC 430.24)		
Total Service Load Volt-Ampreres (VA) Add lines 7,8 & 9 thru 16) =		
Total Service Load Volt-Ampreres / 240-volts = _____ Amperes		
***Service Rating (Amperes)=		

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

** Nameplate rating must be used if larger Range oven combination. For cooktop use 3600 VA

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

****If load management modules are used for all 240 volt loads a load calculation is not required.