Go to the Electrical Load Calculator Now

Brief Instructions for the Electrical Load Calculator

The load calculator is divided into three main sections which enable you to enter the necessary information about the home project and the proposed electrical equipment that will be installed.

The calculations conform to the national electrical codes which focus on required loads and factoring in the appliance and motor equipment. The question mark help buttons will assist you with detailed information about typical equipment loads which may be selected in the various drop down menus.

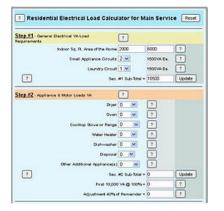
This Residential Electrical Load Calculator is Pre-Loaded with electrical information for you to chose from. Please use additional Question Mark Buttons for more specific information. For your continuance the Update and Calculate Buttons will Recalculate the entire form.

Residential Electrical Load Calculator for the Main Service			
Minimum Size of the Electrical Service - 2017 NEC Article 220.82			
<u>Step #1</u> - General Electrical Load Requirements	Quantity	Load	Elect. Code & Information
Indoor Sq. Ft. Area of the Home	3500	10500 ?	?
Small Appliance Circuits	2 😳	1500VA Ea.	?
Laundry Circuit	1 😂	1500VA Ea.	?
Se	ec.#1 Sub-Total =	15000	? Update
<u>Step #2</u> - Appliance & Motor Loads VA			?
Dryer (5000 😌		?
	2400 😳		?
Cook top Stove or Range	0		?
Water Heater	4500 😳		?
Dishwasher	1200 😨		?
Disposal (0		?
Additional Appliance(s), Including EV Chargers	10000 📀		?
Se	ec. #2 Sub-Total =	23100	? Update
First 10,0	000 VA @ 100% =	10000	?
Adjustment 40%	% of Remainder =	5240	?

Step #3 - Heating & Air Conditioni	ng VA		?		
Single Source Heating Unit			?		
OR	Air Conditioning and Heating Unit	15000	?		
OR	Heat Pump - No Supplemental Heat	0	?		
OR	Continuous Electric Thermal Storage	0	?		
<u>Heating Unit with Supplemental He</u>	eat Source		?		
OR OR	Heat Pump	0	?		
	Sup. Elect Heat OR Central Elect.Heat	0	?		
	Space Heaters VA	0	?		
	How Many Space Heaters	0	?		
	1	Sec. #3 Sub-Total = 15000	? Update		
Step #4 - Perform the Calculations			? Calculate		
		Calculated Total VA Load =	58340 ?		
		Calculated Total Amps Load =	244		
		Reset the Form	? Reset		
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More Electrical Calculations and Formulas:



Generator Sizing Calculator Voltage Drop Calculator Ohms Law Formula Electrical Wire and Cable Selection Codes for Electrical Service Panels Electrical Codes for Grounding Electrical Codes for Underground Electrical Projects Guidelines

Did this help you? Send me your Feedback, Suggestions, or Requests

IMPORTANT: We provide these calculating tools as a guide to assist you to understand the process of accurately sizing a residential electrical panel based on proposed loads. The results of the calculations are based upon the accuracy of the information that you provide. The [Calculate] Button must be pressed when any changes are made to the form. Accurate load sizing is best