

RESIDENTIAL ELECTRICAL LOAD CALCULATIONS

Lighting Loads

220-12	Living area sq. ft. _____ x 3 volt amperes per sq. ft.	= _____ VA
220.52A	Two small appliance circuits (required) x 1500VA	= <u>3000</u> VA
220.52B	Laundry circuit(s) _____ x 1500VA	= _____ VA
220.52A	Additional small appliance circuit(s) _____ x 1500VA	= _____ VA
	Lighting Load Sub-total	= _____ VA

220.42	First 3000 volt-amperes of lighting loads @ 100%	= <u>3000</u> VA
	From 3001 to 120000 VA @ _____ 35%	= _____ VA
	Remainder over 120000 VA @ _____ 25%	= _____ VA
	Lighting Load Total Volt-Amperes	= _____ VA (A)

220.55	Household Cooking Appliances (Use table 220-55) Number of Appliances _____	= _____ VA
	Cooking Units Total Volt-Amperes	= _____ (B)

220-53	Appliance Loads (nameplates)	
	Microwave 1500 VA x _____	= _____ VA
	Compactor 1200 VA x _____	= _____ VA
	Dishwasher 1200 VA x _____	= _____ VA
	Disposal 600 VA x _____	= _____ VA
	Central Vacuum 1800 VA x _____	= _____ VA
	_____ VA x _____	= _____ VA
	_____ VA x _____	= _____ VA
	Appliance Sub-Total	= _____ VA
	Appliance Sub-Total _____ x _____ % = _____ Volt-Amperes (C)	
	(Less than 4 units x 100%, 4 or more units x 75%)	

220-54	Dryer-5000 VA or nameplate (whichever is greater)	= _____ VA (D)
422-10A	Water Heater (nameplate) x 125%	= _____ VA (E)
220-14	Pool/Spa motor loads: Sum all plus 25% of largest	= _____ VA (F)
	Add totals of (A) (B) (C) (D) (E) (F) Total Volt-Amperes	= _____
	Total Volt-Amperes/240	= _____ Amps (G)

220-14C	Largest cooler, A/C or heating load _____ KVA _____ Volts x 125%	= _____ Amps (H)
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Total Service (G) + (H) = _____ AMPS



ELECTRICAL LOAD CALCULATIONS

**HELP FOR THE HOMEOWNER
LOS ALAMITOS BUILDING AND SAFETY**

Paul Melby, CBO

1/7/15

Building Official:

Date:

Date: 01/31/08

Sheet 1 of 1

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