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RESIDENTIAL ELECTRICAL LOAD CALCULATIONS

2019 California Electrical Code: 100Amp Minimum Service

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 = 3000 VA
 220.52B Laundry circuit(s) _____ x 1500VA = _____ VA
 220.52A Additional small appliance circuit(s) _____ x 1500VA = _____ VA

220.42 First 3000 volt-amperes of lighting loads @ 100% = 3000 VA
 From 3001 to 120000 VA @ _____ 35% = _____ VA
 Remainder over 120000 VA @ _____ 25% = _____ 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 = _____ Amps (G)

220.14C Largest cooler, A/C or heating load
 _____ KVA _____ Volts x 125% = _____ Amps (H)

Total Service (G) + (H) = _____ Amps