



# Electrical Load Calculations Residential

Neighborhood  
Services

Revised: August 3, 2022

ADDRESS: \_\_\_\_\_ PERMIT NUMBER: \_\_\_\_\_

### LIGHTING LOAD

Living area sq.ft. _____ x3 volt-amperes per sq.ft.	=	_____	VA
Two small appliance circuit(s) _____	=	_____	VA
(Required)			
Laundry circuit(s) _____ x 1500 VA	=	_____	VA
Additional small appliance circuit(s) _____ x 1500 VA	=	_____	VA
LIGHTING LOAD SUB-TOTAL			= _____ VA

First 3000 volt-amperes of lighting load at 100%	=	_____	VA
From 3001 to 120000 VA @ _____ 35%	=	_____	VA
Remainder over 120000 VA @ _____ 25%	=	_____	VA
LIGHTING LOAD TOTAL			_____ VOLT-AMPERES (A)

### HOUSEHOLD COOKING APPLIANCES

Cooking units – Number of appliances _____	=	_____	VA
(Use table 220.55)			
COOKING UNITS TOTAL			_____ VOLT-AMPERES (B)

### APPLIANCE LOADS (NAMEPLATE)

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
Food Center	600 VA x _____	=	_____	VA
_____	____ VA x _____	=	_____	VA
_____	____ VA x _____	=	_____	VA
APPLIANCE SUB-TOTAL			= _____	VA

### APPLIANCE TOTAL

APPLIANCE SUB-TOTAL \_\_\_\_\_ X \_\_\_\_\_ % \_\_\_\_\_ VOLT-AMPERES (C)

(LESS THAN 4 UNITS X 100%, 7 OR MORE UNITS X 75%)



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Dryer      5000 VA or Nameplate (whichever is greater)      = \_\_\_\_\_ VA (D)  
Water Heater (nameplate)      = \_\_\_\_\_ VA (E)  
**Add totals of (A) (B) (C) (D) (E)**      = \_\_\_\_\_ VA  
TOTAL VOLT-AMPERES / 240      = \_\_\_\_\_ AMPS

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LARGEST COOLER, A/C OR HEATING LOAD  
\_\_\_\_\_ KVA \_\_\_\_\_ VOLTS X 125%      = \_\_\_\_\_ AMPS (F)

**TOTAL SERVICE \_\_\_\_\_ AMPS**

**EXISTING SERVICE \_\_\_\_\_ AMPS**