

Town of Danville
Building Division
 Phone (925) 314-3330

DWELLING UNIT ELECTRICAL LOAD CALCULATION*

Permit Number _____ Service Amperes _____
 Job Address _____ Feeder Amperes _____

Quantity	Load Item	Min. Rate (VA**)	Column 1 (VA)	Column 2 (VA)
	Dwelling Square Footage	3/sq.ft.		
	Small Appl. (2 min)	1,500/ea.		
	Electric-cook top(s)	5,100		
	Electric oven(s)	8,000		
	Dish Washer	1,200		
	Garbage Disposal	800		
	Laundry circuit	1,500		
	Forced air unit	550		
	Air Conditioner(s)			
	EV Charger			
	Pool Equipment			
	Individual space heating			
	Microwave	1,600		
	Electric Clothes Dryer	5,000		
	TOTALS			

First 8,000 VA at 100% =	_____ 8,000 VA
(Total Column 1 minus 8,000VA***) x 40% =	_____ VA
Total Column 2 at 100% =	_____ VA
Calculated Volt-Amperes =	_____ VA
Calculated Amperes (Divide <i>Calculated Volt-Amperes</i> by 240 vac) **** =	_____ Amps
If a service upgrade is required, what will the new service ampere rating be?	_____ Amps

Preparer's Name _____ Phone # (_____) _____

Notes:

* This form is based on Article 220 of the National Electrical Code. This is intended as a guide for those desiring to prepare their own plans. Because of varying conditions from project to project, loads given in this form may not meet requirements of the Electrical Code. A representative of the Town of Danville Building Inspection Division will be happy to provide assistance upon request.

** 1Watt = 1VA. If the VA rating on the actual appliance is higher than the minimum rating, use the actual VA rating.

*** Use the first 8,000 Volt-Amperes for additional loads to existing dwellings. Use 10,000 Volt-Amperes in calculations for new dwelling units. NEC Article 220.83

**** Compare Calculated Amperes to Service and Feeder Amperes to determine whether an upgrade is required or not.