



CITY OF CAMPBELL
Community Development Department

Electrical Calculation Worksheet

LOAD ESTIMATING - OPTIONAL METHOD (CEC 220.82 or 220.83)

for Dwellings with 120/240, 3 wire, single phase services:

_____	Sq. Ft. living area ¹ x 3 watts/sq. ft.	_____	watts
_____	- 20 amp small appliance circuits @ 1500 watts each	_____	watts
_____	- laundry circuits @ 1500 watts each	_____	watts
Electrical Appliances @ nameplate value²			
	range	_____	watts
	oven	_____	watts
	dishwasher	_____	watts
	garbage disposal	_____	watts
	dryer ³	_____	watts
	other (1 - 120v fans)	_____	watts
	other _____	_____	watts
	Subtotal	_____	watts
	First 10,000 watts @ 100% for New Dwelling		
	Or 8,000 watts @ 100% for Existing Dwelling	<u>Existing</u>	_____ watts
	Balance _____ @ 40%	_____	watts
	*Air conditioning @ 100% (or) _____ Amps	_____	watts
	*Central elect. space heating @ 100% (or)	_____	watts
	*Less than 4 separately controlled elect. space heaters @ 100%	_____	watts
	plus controlled elect. space heaters more than 4 @ 40%	_____	watts
	Total Existing Load	_____	watts
	New Added Load	_____	watts
	Revised Total Load	_____	watts

convert to amps by dividing by 240 volts (I=P/E)

¹ use outside dimensions

² if values are given in amps, multiply by volts to obtain watts (P=Ix E)

³ minimum 5000 watts

⁴ if added load is for a level 2 electrical vehicle charging station load is 240v 7.7 kVA @ 125% = 9,625 watts

*use larger connected load of a/c and space heating, but not both.

AMPS

MP AMPS