

CITY OF SONORA COMMUNITY DEVELOPMENT DEPARTMENT 94 N. WASHINGTON STREET SONORA, CA 95370 (209) 532-3508 - Phone

## RESIDENTIAL ELECTRICAL LOAD WORKSHEET

O W N E R: \_\_\_\_\_

A D D R E S S: \_\_\_\_\_

## LIGHTING LOAD

Art.	220	- 3(a)	Total square footage of habitable living a	rea :		@ 3 watts per so	qft =	watts
Art.	220	- 16(a)	) Two small appliance circuits @ 1500 wat	tts each :	2	@ 1500 watts ead	ch = <u>3000</u>	watts
Art.	220	- 16(a)	) Additional small appliance circuits each :		@ 1500 watts each =			watts
Art.	220	220 - 16(b) Laundry circuit (washing machine) @ 1500 watts ea. @ 1500 watts =			s =	watts		
					Lig	hting Load Subto	al =	watts
Table	220	- 11						
		First	3000 watts of lighting load subtotal:		@ 100% =	3000 watts		
		Rem	ainder from 3001 to 120,000 watts:		@ 35% =	watts		
		Rem	ainder over 120,000 watts:		@ 25% =	watts		
					LIGH	TING LOAD TOTA	AL =	watts
			APPLIANCE LOAD					

Art. 220 - 17	Disposal:	X	600	watts =		watts
	Microwave:	x	1500	watts =		watts
	Compactor:	×	1200	watts =		watts
	Dishwasher:	x	1200	watts =		watts
	Food Center:	x	600	watts =		watts
	:	×		watts =		watts
	:	×		watts =		watts
			Appliance	e Subtotal =		watts
				APPLIA	ANCE TO	DTAL
Art. 220 - 17	Appliance subtotal: [ Less than 4 units @	watts_X 100%; 4 or m	ore units @	=		watts

O W N E R:			
A D D R E S S:			
	ELECTRIC CLOTHES DRYER		
Art. 220 - 18	5000 watts OR nameplate rating: [ Whichever is larger	] DRYER TOTAL =	watts
	WATER HEATER (if electric)		
Art. 220 - 3(b)	@ Nameplate rating :	WATER HEATER LOAD =	watts
	HOUSEHOLD COOKING EQUIPMEN	т	
Table 220 - 19	Cooking Units - Includes ranges, wall mounted ovens, ounits, and other household cooking units.	countertop	
	Number of Units -		
	ONE unit use	8,000 watts:	
	TWO units use	11,000 watts:	
	THREE units use FOUR units use	14,000 watts: 17,000 watts:	
	FIVE units use	20,000 watts:	
	_	COOKING TOTAL =	watts
	SPACE HEATING/AIR CONDITION		
Art. 220 - 4(a)	Air conditioner nameplate rating [ @ 125% ] :	watts X 125% =	watts
Art. 220 - 21	OR [Whichever is larger]		
Art. 220 - 15	Electric heat nameplate rating [ @ 100% ]:		
	HEAT PUMP		
Art. 220 - 4(a)	Largest condensing unit nameplate [ @ 125% ] :	watts X 125% =	watts
Art. 440 - 33	AND		
Art. 220 - 15	Supplementary heat (resistance) [ @ 100% ] :	watts X 100% =	watts
	ADDITIONAL HVAC EQUIPMENT		
Art. 440 - 33	Condensing units or A/C's : >	watts X 100% =	watts
	SPACE HEATIN	IG/AIR CONDITIONING TOTAL =	watts

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A D D R E S S: \_\_\_\_\_

## OPTIONAL EQUIPMENT

	220 430	. ,	SWIMMING POOL and/or SPA: > Largest motor nameplate :	watts X 125% =	watts
		Rema	ining motor(s) nameplate(s) :	watts X 100% =	watts
		Lights	s and other misc. equipment :	watts X 100% =	watts
				POOL/SPA TOTAL =	watts
Art.	220	- 3(b)	WELDERS, KILNS, ETC.		
		1.	Name or description of equipment :		
			@ rated nameplate :	watts X 100% =	watts
		2.	Name or description of equipment :		
			@ rated nameplate :	watts X 100% =	watts
		3.	Name or description of equipment :		
			@ rated nameplate :	watts X 100% =	watts
				MISCELLANEOUS EQUIPMENT TOTAL =	watts

## TOTAL DEMAND ON SYSTEM

Art. 220 - 10 Sum of all totals :

- LIGHTING LOAD TOTAL = \_\_\_\_\_ watts
  - APPLIANCE TOTAL = watts
    - DRYER TOTAL = \_\_\_\_\_ watts
- WATER HEATER TOTAL = \_\_\_\_\_ watts
  - COOKING TOTAL = watts
- SPACE HEATING/AIR CONDITIONING TOTAL = \_\_\_\_\_ watts
  - POOL/SPA TOTAL = \_\_\_\_\_ watts
  - MISCELLANEOUS EQUIPMENT TOTAL = \_\_\_\_\_ watts
  - TOTAL LOAD FOR DWELLING = \_\_\_\_\_ watts

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O W N E R:					
A D D R E S S:					
	MAIN SERVICE SIZING				
Art. 220 - 2					
	[NOTE: For 120/240 Volt systems use 240 volts; for	or 120/208 Vo	olt systems u	se 208 voli	sj
Art. 220 - 10	MINIMUM SERVICE SIZE		AMPS		
Table 310 - 16	SERVICE ENTRANCE CONDUCTORS		AWG, Cu,		AWG, AI.
Table 250 - 94	GROUNDING ELECTRODE CONDUCTOR		AWG Copp	er	
	OPTIONAL CALCULATION FOR DWELLING UNI	т			
Table 220 - 30	100% of the nameplate rating(s) of the air conditioni	ng		watts	
	100% of the first 10 kVA of all other load	0		watts	
	40% of the remainder of all other load			watts	
	TOTAL OPT	IONAL LOAD		watts	
Art. 220 - 2	TOTAL OPTIONAL LOAD:	DIVIDED BY:		volts =	Amps
	[NOTE: For 120/240 Volt systems use 240 volts; for				
Art. 220 - 10	MINIMUM SERVICE SIZE		AMPS		
Table 310 - 16	SERVICE ENTRANCE CONDUCTORS		AWG, Cu,		AWG, AI.
Table 250 - 94	GROUNDING ELECTRODE CONDUCTOR		AWG Copp	er	

Revised 6/24/03