

**Division of Codes and Standards  
Manufactured Home Electrical Load Worksheet  
Title 24. Housing and Urban Development Section 3280.811**

**NOTE: 1 WATT = 1 VOLT-AMPERE**

DTN: \_\_\_\_\_ Existing Home Amps: 100

- A. **Lighting:** Length of home times width of home (outside dimensions) = square foot, times 3 watts per square foot  
Length 52 X Width 13.5 x 3 watts..... = 2106 watts
- B. **Small Appliances:** Enter number of 20-amp small appliance (exclude laundry) circuits, times 1,500 Watts.  
Number of circuits 2 x 1,500 watts..... = 3000 watts
- C. **Laundry:** Include 1,500 watt minimum if installed..... = 1500 watts
- D. **Total (the sum of lines A, B and C):**..... = 6606 watts
- E. First 3,000 watts at 100%..... = 3000 watts
- F. 6606 minus 3,000 = 3606 watts multiplied by 35% (.35)..... = 1262.1 watts  
(FROM LINE D)
- G. Net computed load (SUM OF LINE E AND LINE F)..... = 4262.1 watts
- H. 4262.1 watts divided by 240 volts..... = 17.8 amps per leg  
(FROM LINE G)

LOADS IN AMPS - PART 1	LEG A	LEG B
1. Lighting & small appliances (line H above)	17.8	17.8
2. Bath fan 1	1.5	
3. Bath fan 2		
4. Range hood		2
5. Freestanding electric range ***		
6. Electric furnace *		
7. Electric space heater		
8. Exhaust Fans		
9. Air conditioner *		
10. Gas furnace blower motor *	8.8	
11. Other		
12. Add 25% of the largest motor from line 6, 7, 8, 9 or 10 above	2.2	
13. SUB-TOTAL	30.3	19.8
LOADS IN AMPS - PART 2		
14. Disposal		
15. Electric water heater		
16. Dishwasher		8.1
17. Electric wall mounted oven		
18. Electric cooktop		
19. Electric clothes dryer **		
20. Other		15 evaporative cooler
21. SUB-TOTAL	0	23.1
22. If 4 or more appliances are used in Part 2, use 75% of line 21		
23. TOTAL LOAD IN AMPS (combine Parts 1 & 2)	30.3	42.9

- 1 kW = 1000 watts; 1 volt ampere = 1 watt; watts divided by volts = amps
- Use nameplate ratings on fixtures/appliances for load values.
- Determine values for freestanding range based on name plate rating and table below. (A reduction is allowed)
- If de-amping an MH-unit, a permit from HCD is required. Use HCD 415 Application, include \$196.00 in fees, complete and attach this form and indicate on the HCD 415 what electrical loads will be reduced or eliminated to reduce the loads to the desired level
- A 15 amp evaporative cooler circuit must be included in the calculations if the home is de-amped to 50 amps.
- \* Omit smaller of air conditioning and heating ampere load.
- \*\* If home is wired for electric dryer but the dryer is not installed, use 21 amp value.
- \*\*\* Derive amps for free-standing range (as distinguished from separate oven and cooking units) by dividing values below by 240 volts.

**FREESTANDING RANGE REDUCTION TABLE**

Nameplate Rating (in watts)	Use (in watts)
10,000 or less	80 Percent of rating
10,001 to 12,500	8,000
12,501 to 13,500	8,400
13,501 to 14,500	8,800
14,501 to 15,500	9,200
15,501 to 16,500	9,600
16,501 to 17,500	10,000

APPROVED  
This plan does not authorize or approve any omission or deviation from requirements of State Law of local Ordinance.  
One set of approved plans shall be available at the project site at all times.  
State of California  
Department of Housing and Community Development  
Division of Codes and Standards  
Date 1/28/22 By JS