



# CIRCUIT CARD B-36

Development Services

**Building Division**  
1635 Faraday Avenue  
760-602-2719  
www.carlsbadca.gov

THIS CARD MUST BE FILLED OUT AND AVAILABLE AT THE SERVICE EQUIPMENT FOR THE ROUGH INSPECTION

Address:		Permit Number:	
Owner:	Phone:	Area in Sq. Ft.	
Contractor:	Phone:		

PANEL:				A.I.C.				VOLTS				Ø				WIRE			
LOCATION	CKT	BKR SIZE	WIRE		MISC	REC	REC	LTG	MISC	WIRE		BKR SIZE	CKT	LOCATION					
			SIZE	TYPE						SIZE	TYPE								
	1												2						
	3												4						
	5												6						
	7												8						
	9												10						
	11												12						
	13												14						
	15												16						
	17												18						
	19												20						
	21												22						
	23												24						
	25												26						
	27												28						
	29												30						
	31												32						
	33												34						
	35												36						
	37												38						
	39												40						
	41												42						

<p>MAIN: <input type="checkbox"/> _____ AMP BRK/FUSE <input type="checkbox"/> MLO          BUS: _____ AMP          Service entrance or feeder conductors:          A) Size: No. _____ B) Type: <input type="checkbox"/> CU <input type="checkbox"/> AL          C) Insulation: _____ D) Conduit Size: _____          Service ground/bond:          A) Size: No. _____ B) Type: <input type="checkbox"/> CU <input type="checkbox"/> AL          C) Clamp location(s):  <input type="checkbox"/> UFER 250 – 50(c)  <input type="checkbox"/> Water Pipe 250 – 104  <input type="checkbox"/> Ground Rod 250 – 52  <input type="checkbox"/> _____          GFCI locations 210 – 8, 680 – 70:  <input type="checkbox"/> Bathroom(s) <input type="checkbox"/> Kitchen  <input type="checkbox"/> Garage(s) <input type="checkbox"/> Hydromassage Tub  <input type="checkbox"/> Outdoors <input type="checkbox"/> _____          AFCI Protected Circ. 210 – 12  <input type="checkbox"/> Bedroom(s)</p>	<p>Computed Load _____ AMPS  <i>See Calculation Worksheet on back</i>          Branch circuits required:          A) Lighting Circuits 220 – 3(b), 4(d)          B) Two Small Appliance Circuits 210 – 11(e)          C) Laundry Circuit 220 – 16(b)          D) Central Heating Equipment 422 – 12          E) Bathroom 210 – 52(d)          Remarks: _____          _____          _____  <i>I certify that all terminations have been torqued in accordance with manufacturer's instructions and that the work shown on this circuit card represents the full extent of the work performed under this permit.</i>  <input type="checkbox"/> Owner _____  <input type="checkbox"/> Contractor _____  <input type="checkbox"/> Signed _____ Date _____</p>
---	---

## SINGLE FAMILY DWELLING ELECTRICAL SERVICE LOAD CALCULATION

*As an alternative method, the STANDARD METHOD  
found in ARTICLE 220 of the National Electric Code, may be used*

**1. GENERAL LIGHTING LOADS**

Dwelling \_\_\_\_\_ sq. ft. x 3 VA = 220-3(a) \_\_\_\_\_ VA  
 Small appliance loads – 220-16(a) 1500 VA x \_\_\_\_\_ circuits = \_\_\_\_\_ VA  
 Laundry load – 220-16(b) 1500 VA x \_\_\_\_\_ circuits = \_\_\_\_\_ VA  
**General Lighting Total \_\_\_\_\_ VA**

**2. COOKING EQUIPMENT LOADS – Nameplate Value**

Range \_\_\_\_\_ VA = \_\_\_\_\_ VA  
 Cooktop \_\_\_\_\_ VA = \_\_\_\_\_ VA  
 Oven (s) \_\_\_\_\_ VA = \_\_\_\_\_ VA  
**Cooking Equipment Total \_\_\_\_\_ VA**

**3. ELECTRIC DRYER 220-18 (Nameplate, 5000 VA minimum)**

Dryer \_\_\_\_\_ VA = **Dryer Total \_\_\_\_\_ VA**

**4. FIXED APPLIANCE LOADS 230-30 (b) (3)**

Dishwasher = \_\_\_\_\_ VA  
 Disposal = \_\_\_\_\_ VA  
 Compactor = \_\_\_\_\_ VA  
 Water Heater = \_\_\_\_\_ VA  
 Hydromassage Bathtub = \_\_\_\_\_ VA  
 Microwave Oven = \_\_\_\_\_ VA  
 Built-in Vacuum = \_\_\_\_\_ VA  
 \_\_\_\_\_ = \_\_\_\_\_ VA  
**Fixed Appliance Total \_\_\_\_\_ VA**

**5. OPTIONAL SUBTOTAL (Add all of the above totals)**

\_\_\_\_\_ VA

**6. APPLYING DEMAND FACTORS – TABLE 220-30**

First 10,000 VA x 100% = 10,000 VA

Optional Subtotal (from line 5) { Remaining \_\_\_\_\_ VA x 40% = \_\_\_\_\_ VA

**7. HEATING OR AC LOAD – TABLE 220-30**

Larger of the Heating or AC Load = \_\_\_\_\_ VA

**8. OPTIONAL LOADS TOTAL (Add totals from lines 6 and 7) =**

\_\_\_\_\_ VA

**9. MINIMUM SERVICE SIZE = Optional Loads Total =  
240 Volt**

\_\_\_\_\_ Ampere

(Please put total on front of card under Computed Load)