City of El Cajon
Building Division
200 Civic Center Way
El Cajon, CA 92020
Phone: 441-1726

CIRCUIT CARD AND LOAD SUMMARY (CEC 2019)

This card must be filled out and available at the service equipment for the rough inspection

Address	Permit Number
Owner Phone	APN
Contractor Phone	Area in Sq. Ft.
PANEL _____ A.I.C _____	_____VOLTS _____ 0 _____ WIRE

LOCATION	CKT	BKR SIZE	WIRE SIZE	WIRE TYPE	MISC	LGT	REC		REC	LTG	MISC	WIRE TYPE	WIRE SIZE	BKR SIZE	CKT	LOCATION
	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	

MAIN: _____ AMP BKR/FUSE
BUS: _____AMP
Service entrance or feeder conductors:
A) Size: No. _____ B) Type: ☐ CU ☐ AL
C) Insulation: _____ D) Conduit Size: _____
Service ground/bond:
A) Size: No. _____ B) Type: ☐ CU ☐ AL
C) Clamp location(s):
___ UFER 250.52A.3 & 250.66B _____ Water Pipe 250.52A1
___ Ground Rod 250.52.(5) _____

Computed Load _____ AMPS
See Calculation Worksheet on Back

Branch circuits required:

A) Lighting circuits	220.12
B) Two small appliance circuits	210.11C(1)
C) Laundry circuit	210.11C(2)
D) Central heating equipment	422.12
E) Bathroom	210.11C(3)
F) Garage	**210.11C(4)**

Remarks_____
_____
_____

GFCI/AFCI locations 210.8, 210.12 & 680
Bathrooms _____ Kitchen counters _____
Garages _____ _Sinks (6 ft)_____
Outdoors _____ Laundry_____Other _____
AFCI Protected – required except garages, bathrooms, outdoors

I certify that all terminations have been torqued in accordance with manufactures instructions and that the work shown on this circuit card represents the full extent of the work performed under this permit.

Signed_____ Date_____

SINGLE FAMILY DWELLING
ELECTRICAL SERVICE LOAD CALCULATIONS

OPTIONAL METHOD NEC 220.80 & 82, see 220.83 for existing dwelling unit.

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 =_____ _____ VA
Small appliance loads (220.52A) 1500 VA x _____ circuits = _____ VA
Laundry load (220.52B) 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 220.54 (Nameplate, 5000 VA minimum)

Dryer _____ VA = **Dryer Total _____ VA**

4. FIXED APPLIANCE LOADS 220.82

Dishwasher _____ VA
Disposal _____ VA
Compactor _____ VA
Water Heater _____ VA
_____ _____ VA
_____ _____ VA

Fixed Appliance Total _____VA

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

6. APPLYING DEMAND FACTORS – 220.82B

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

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

7. HEATING OR AC LOAD – 220.82(C)

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

(Put total on front of card under Computed Load)

1/2020