



Power People Electric

Jason Summers

Lic: TMEL #12345

LOAD CALCULATION REPORT

NEC 2023 - Standard Method Calculation

CALCULATION DATE

January 23, 2026

PROJECT ADDRESS

123 Somewhere St., Richmond, TX

CLIENT NAME

Marianne Doe

1 Lighting and Receptacles

NEC 220.12

Dwelling area 2,560 SQ FT

× 3 VA/SQ FT

General lighting load = **7,680 VA**

SECTION SUBTOTAL

7,680 VA

Line Load

7,680 VA

Neutral Load

7,680 VA

2 Small Appliances & Laundry

NEC 220.52(A)

Number of circuits		4		
	×	1,500 VA		
Small appliance load			=	6,000 VA
SECTION SUBTOTAL				6,000 VA
Line Load				6,000 VA
Neutral Load				6,000 VA

3 Apply Demand Factors

NEC 220.42

Total general lighting + small appliance		13,680 VA		
First 3,000 VA @ 100%		3,000 VA		
Next 117,000 VA @ 35%	+	3,738 VA		
Remaining @ 25%	+	0 VA		
Net computed load			=	6,738 VA
SECTION SUBTOTAL				6,738 VA
Line Load				6,738 VA
Neutral Load				6,738 VA

4 Fixed Appliances

NEC 220.53

Number of appliances		4	
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Total nameplate rating		7,350	VA
Dishwasher		1,200	VA
Disposal		850	VA
Water Heater		1,300	VA
Pool Pump		4,000	VA
Demand factor		75%	
Fixed appliance load		5,512.5	VA
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SECTION SUBTOTAL		5,512.5	VA
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Line Load		5,512.5	VA
Neutral Load		5,512.5	VA

5 Electric Dryers

NEC 220.54

Dryer load (5kW minimum)		5,000	VA
Dryer		5,000	VA
Demand factor (1 units)	×	100%	
Calculated dryer load		=	5,000 VA
Neutral load (70%)		3,500	VA
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SECTION SUBTOTAL		5,000	VA
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Line Load		5,000	VA
Neutral Load		3,500	VA

6 Cooking Appliances

NEC 220.55

Cooking demand	4,050 VA
Oven	3,400 VA
Range	2,000 VA
Neutral load (70%)	2,835 VA

SECTION SUBTOTAL

4,050 VA

Line Load	4,050 VA
Neutral Load	2,835 VA

7 HVAC

NEC 220.60

AC load	6,000 VA	
Heating load	3,000 VA	
Selected (AC)	=	6,000 VA

SECTION SUBTOTAL

6,000 VA

Line Load	6,000 VA
Neutral Load	0 VA

8 Largest Motor

NEC 220.50

Largest motor	6,000 VA	
Source: HVAC equipment	6,000 VA	
25% addition	×	1,500 VA

SECTION SUBTOTAL

1,500 VA

Line Load	1,500 VA
Neutral Load	0 VA

9 EVSE

NEC 220.57

Number of units	1	
EVSE Unit	9,000 VA	
EVSE load	9,000 VA	
SECTION SUBTOTAL		9,000 VA
Line Load		9,000 VA
Neutral Load		0 VA

SERVICE LOAD SUMMARY

TOTAL LINE DEMAND

37,800.5 VA

TOTAL NEUTRAL DEMAND

18,585.5 VA

SERVICE AMPACITY

158 AMPS

@ 240V SINGLE PHASE