

Panel Schedule Calculator

Totals panel schedule rows, phase distribution, maximum phase current, rating margin, and remaining spaces from entered circuit data.

Generated October 10, 2026

<https://www.elecatrix.com/commercial-industrial-loads/panel-schedule-calculator/>

Inputs

Input	Value	Unit
Circuit rows	Rows: 4	
Row 1 - Label	Lighting	
Row 1 - Phase placement	A	
Row 1 - Poles	1	spaces
Row 1 - Load	1200	VA
Row 2 - Label	Receptacles	
Row 2 - Phase placement	B	
Row 2 - Poles	1	spaces
Row 2 - Load	900	VA
Row 3 - Label	HVAC	
Row 3 - Phase placement	A-B	
Row 3 - Poles	2	spaces
Row 3 - Load	2400	VA
Row 4 - Label	Office	
Row 4 - Phase placement	C	
Row 4 - Poles	1	spaces
Row 4 - Load	600	VA
Phase voltage	120	V
Panel rating	100	A

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Panel spaces	42	spaces
Results		
Result	Value	Unit
Connected load	5100	VA
Phase A load	2400	VA
Phase B load	2100	VA
Phase C load	600	VA
Average phase load	1700	VA
Imbalance estimate	64.7059	%
Max phase current	20	A
Panel rating margin	80	A
Used spaces	5	spaces
Remaining spaces	37	spaces
Counted rows	4	rows
Calculation details		
Detail	Value	Unit
Calculation basis	Circuit rows are distributed to their selected phase placement. Two-pole rows split VA across two phases and three-pole rows split VA across all three phases.	
Panel boundary	Panel schedule arithmetic only; no breaker, conductor, demand factor, load classification, neutral, fault-current, equipment-rating, utility, or code-compliance result is made.	

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Formulas

$$\text{Connected load (VA)} = \sum \text{row VA}$$

$$\text{VA}_{\phi} = \begin{cases} \text{VA}_{\text{row}}, & \text{one selected phase} \\ \text{VA}_{\text{row}}/2, & \text{two selected phases} \\ \text{VA}_{\text{row}}/3, & \text{three selected phases} \end{cases}$$

$$\text{Imbalance (\%)} = (\text{largest phase deviation} / \text{average phase VA}) \times 100$$

$$I_{\text{max}} = \frac{\text{largest phase VAV}_{\text{phase}}}{\text{phase}}$$

$$\text{Remaining spaces} = \text{Panel spaces} - \sum \text{entered poles}$$

Warnings and limitations

This panel schedule estimate uses entered row loads and phase placement only. It does not apply demand factors, classify loads, select breakers or conductors, verify bus ratings, or prove code compliance.