

Panel Capacity Calculator

Estimate a panel load screen from existing and planned current, then compare it with an entered panel rating and reserve target.

Generated October 10, 2026

<https://www.elecatrrix.com/residential-load-service/panel-capacity-calculator/>

Inputs		
Input	Value	Unit
Panel rating	200	A
Existing load	120	A
Added load	20	A
Entered reserve	20	%
Results		
Result	Value	Unit
Total entered load	140	A
Entered panel rating	200	A
Remaining capacity	60	A
Utilization	70	%
Target load with reserve	160	A
Reserve target margin	20	A
Capacity comparison	Within entered panel rating	
Calculation details		
Detail	Value	Unit
Calculation basis	Total entered load is existing load plus added load; the reserve target is the entered rating reduced by the entered reserve percentage.	
Boundary	Screening arithmetic only; feeder, service, demand, protection, equipment, and adopted-rule review remain separate.	

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Formulas

$\text{total entered load} = \text{existing load} + \text{added load}$

$\text{remaining capacity} = \text{entered panel rating} - \text{total entered load}$

$\text{utilization} = \text{total entered load} / \text{entered panel rating} \times 100$

$\text{target load with reserve} = \text{entered panel rating} \times (1 - \text{reserve percent} / 100)$

Warnings and limitations

Load-screening arithmetic only; review demand, feeder, service, protection, equipment, fault duty, and adopted rules separately.