

Peak Demand Calculator

Estimate diversified peak demand and compare it with entered service capacity for preliminary load review.

Generated October 10, 2026

<https://www.elecatrix.com/power-energy-cost/peak-demand-calculator/>

Inputs

Input	Value	Unit
Connected load	100	kW
Diversity factor	80	%
Service capacity	125	kW

Results

Result	Value	Unit
Peak demand	80	kW
Spare capacity	45	kW
Utilization	64	%
Diversity factor used	80	%

Calculation details

Detail	Value	Unit
Calculation basis	Peak demand equals connected load multiplied by the entered diversity factor. Spare capacity and utilization compare that peak to service capacity.	
Boundary	Screening estimate only; no interval data, coincidence study, demand ratchet, tariff review, or service approval is made by this calculator.	

Formulas

peak demand kW = connected load kW x diversity factor / 100

spare capacity kW = service capacity kW - peak demand kW

utilization percent = peak demand kW / service capacity kW x 100

Warnings and limitations

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This peak-demand estimate uses entered connected load and diversity only. It does not model interval data, coincidence, tariff rules, demand ratchets, or approval of service upgrades.