

Commercial Load Diversity Calculator

Apply an entered diversity factor to four commercial load blocks and compare the diversified load with an entered capacity.

Generated October 10, 2026

<https://www.elecatrix.com/commercial-industrial-loads/commercial-load-diversity-calculator/>

Inputs

Input	Value	Unit
Block A peak load	20	kW
Block B peak load	15	kW
Block C peak load	10	kW
Block D peak load	5	kW
Entered diversity factor	70	%
Entered capacity	40	kW

Results

Result	Value	Unit
Connected block load	50	kW
Diversified block load	35	kW
Diversity reduction	15	kW
Capacity margin	5	kW

Calculation details

Detail	Value	Unit
Calculation basis	Commercial diversity worksheet sums entered load blocks and applies the entered diversity factor.	
Review boundary	User-entered coincidence/diversity factors only; no hidden demand table or compliance result is made.	

Formulas

$$P_{\text{connected}} = P_A + P_B + P_C + P_D$$

$$P_{\text{diversified}} = P_{\text{connected}} \times \frac{D}{100}$$

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$P_{\text{reduction}} = P_{\text{connected}} - P_{\text{diversified}}$

$M_{\text{capacity}} = P_{\text{capacity}} - P_{\text{diversified}}$

Warnings and limitations

User-entered coincidence and diversity factors only; the worksheet does not approve demand diversity, choose a hidden demand table, approve feeder or service size, or decide code compliance.