

Ohm's Law Calculator

Solve for voltage, current, resistance, or power from known fixed-resistance electrical values.

Generated October 10, 2026

<https://www.elecatrrix.com/voltage-current-resistance/ohms-law-calculator/>

Inputs

Input	Value	Unit
Solve for	Current	
Voltage	120	V
Current	5	A
Resistance	24	ohm

Results

Result	Value	Unit
Voltage	120	V
Current	5	A
Resistance	24	ohm
Power	600	W

Calculation details

Detail	Value	Unit
Calculation basis	Ideal DC or RMS fixed-resistance Ohm law arithmetic using the entered known values.	
Boundary	Educational estimate only; no conductor, component, load, thermal, transient, waveform, equipment-rating, or code-compliance decision is made by this calculator.	

Formulas

$$V = I \times R$$

$$I = (V/R)$$

$$R = (V/I)$$

$$P = V \times I$$

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Warnings and limitations

This is an educational electrical formula estimate. Verify real circuits with measurements, equipment ratings, temperature, waveform, duty cycle, manufacturer data, and qualified review before design or installation decisions.