

DC Power From Voltage And Current Calculator

Calculate steady-state DC power in watts from operating voltage in volts and current in amperes.

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<https://www.elecatrix.com/voltage-current-resistance/dc-power-from-voltage-current-calculator/>

Inputs

Input	Value	Unit
DC voltage	24	V
DC current	5	A

Results

Result	Value	Unit
DC power	120	W
Voltage used	24	V
Current used	5	A

Calculation details

Detail	Value	Unit
Calculation basis	DC power W = voltage V x current A.	
Review boundary	Steady-state ideal DC arithmetic only; no transient, converter efficiency, conductor, protection, thermal, equipment rating, or code-compliance result is made.	

Formulas

$$P = V \times I$$

Warnings and limitations

This is steady-state ideal DC power arithmetic. It does not model converter losses, transients, thermal limits, conductor sizing, protection, or code compliance.