

Quantity	Basic Relationships	Units
Voltage, v	$v = \frac{dw}{dq}$	volts = joules/coulomb V = J/C
Current, i	$i = \frac{dq}{dt}$	amps = coulombs/second A = C/s
Power, p	$P = \frac{dw}{dt} = \frac{dw}{dq} \cdot \frac{dq}{dt} = vi$	watts = joules/second W = J/s
Resistance, R	$R = \frac{v}{i}$	ohms = volts/amp $\Omega = V/A$
Conductance, G	$G = \frac{1}{R}$	siemens = 1/ohms S = 1/ Ω
Capacitance, C	$C = \frac{q}{V}$	farads = coulombs/volt F = C/V
Inductance, L	$L = \frac{\lambda}{i} = \frac{N\phi}{i}$ λ = flux linkage N = number of turns ϕ = total flux	henries = weber-turns/amp H = Wb-t/A

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