Electrical power formulas

Quantity	Formula
DC power	P = V × I
Single-phase real power	P = V × I × PF
Three-phase real power	P = √3 × VL × I × PF
Apparent power	S = V × I (× √3 three-phase)
Energy	kWh = kW × h
Current from power (1-ph)	I = P ÷ (V × PF)

Notes

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