

Basic Electrical Engineering Formulas And Equations

Electrical Formulas

These are the Basic Electrical Formulas Related to Ohm's Law.

Variables used in these formulas are as follows:

V = Voltage in Volts

I = Current in Amperes

R= Resistance in Ohms

Power = In Watts

Voltage Formulas

$$V=IR, \quad V=PI, \quad V=\sqrt{P \times R}$$

Current Formulas

$$I = V/R, \quad I=P/V, \quad I=\sqrt{P/R}$$

Resistance Formulas

$$R=V/I, \quad R=P/I^2, \quad R=P/V^2$$

Power Formulas

$$P=VI, \quad P=I^2R, \quad P=V^2/R$$

Following are several additional formulas, which are useful for calculating Current, Horsepower, KW, and kVA for both Single Phase & Three Phase AC Current.

HP= Horsepower

EFE = EfficiencyFactor (Use 0.9 when not mentioned)

PF=Power Factor (Use 0.8 when not mentioned)

AC = Alternating Current

To Find:	Single-Phase	Three Phase
Current, when Motor Hp is known	$\frac{HP \times 746}{V \times EFE \times PF}$	$\frac{HP \times 746}{V \times EFE \times PF \times 1.73}$
Ampers, when kW is known	$\frac{kW \times 1000}{V \times PF}$	$\frac{kW \times 1000}{V \times PF \times 1.73}$
Current, when kVA is Known	$\frac{kVA \times 1000}{V \times 1.73}$	$\frac{kVA \times 1000}{V \times 1.73}$
kilowatts (kW)	$\frac{V \times I \times PF}{1000}$	$\frac{V \times I \times PF \times 1.73}{1000}$
kW input, when Motor HP is Known	$\frac{HP \times 0.746}{EFE}$	$\frac{HP \times 0.746}{EFE}$
kilovolt-Amperes (kVA)	$\frac{V \times I}{1000}$	$\frac{V \times I \times 1.73}{1000}$
Horsepower (HP)	$\frac{V \times I \times EFE \times PF}{746}$	$\frac{V \times I \times EFE \times PF \times 1.73}{746}$

Useful Electrical Formulas

To Obtain	Single Phase	Three Phase
Kilowatts	$\frac{V \times L \times PF}{1000}$	$\frac{1.732 \times V \times L \times PF}{1000}$
kV-A	$\frac{V \times L}{1000}$	$\frac{1.732 \times V \times L}{1000}$
Horsepower required when generator kW unknown (if generator efficiency is unknown, use 0.93)	$\frac{kW}{0.746 \times \text{Efficiency (Generator)}}$	$\frac{kW}{0.746 \times \text{Efficiency (Generator)}}$
kW input when motor hp known (if motor efficiency is unknown, use 0.85 x hp)	$\frac{HP \times 0.746}{\text{Efficiency (Motor)}}$	$\frac{HP \times 0.746}{\text{Efficiency (Motor)}}$
Ampers when motor hp is known	$\frac{HP \times 0.746}{V \times PF \times \text{Efficiency}}$	$\frac{HP \times 0.746}{1.732 \times V \times PF \times \text{Efficiency}}$
Ampers when kW is known	$\frac{kW \times 1000}{V \times PF}$	$\frac{kW \times 1000}{1.732 \times V \times PF}$
Ampers when kW-A is known	$\frac{kV-A \times 1000}{V}$	$\frac{kV-A \times 1000}{1.732 \times V}$

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The Elements of Mechanical and Electrical Engineering International Correspondence Schools, 1898 **Science Abstracts** ,1913 **English Mechanic and Mirror of Science** ,1884 **The Electrical Engineer** ,1905 Controlled Environment Engineering Ilhami Yildiz, 2025-12-15 This integrated book introduces broad engineering concepts and relevant physiological principles and environmental parameters and demonstrates in a step by step approach how controlled environment engineering knowledge can be put in use in designing plant animal and aquatic bioenvironmental systems It covers integrated energy and waste management approaches and clean energy technologies including real world case studies and complete design examples with state of the art technologies and updated material globally Provides exclusive material on plant animal and aquatic systems engineering and relevant waste management systems in a single book Introduces broad engineering concepts relevant physiological principles and environmental parameters Incorporates a design and integrated energy and waste management approach Demonstrates how controlled environment engineering knowledge can be put in use in designing plant animal and aquatic production facilities Includes calculations and controlled environment design examples including homework problems This book is aimed at researchers and graduate students in agricultural aquacultural and biosystems engineering control systems aquaculture and agriculture *Electrical Engineering* ,1936 *The National Union Catalog, Pre-1956 Imprints* ,1971 **Soviet Electrical Engineering** ,1977 The Mechanical Engineer's Pocket-book William Kent, 1897 **Scientific and Technical Aerospace Reports** ,1979 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database *e-Learning, e-Education, and Online Training* Shuai Liu, Matt Glowatz, Marco Zappatore, Honghao Gao, Bing Jia, Alberto Bucciero, 2018-06-29 This book constitutes the proceedings of the 4rd International Conference on e Learning e Education and Online Training eLEOT 2018 held in Shanghai China in April 2018 The 49 revised full papers presented were carefully reviewed and selected from 120 submissions They focus on most recent and innovative trends in this broad area ranging from distance education to collaborative learning from interactive learning environments to the modelling of STEM Science Technology Mathematics Engineering curricula Marine Technology Society Journal Marine Technology Society, 1975 **Emerging Capabilities and Applications of Wireless Power Transfer** Triviño-Cabrera, Alicia, Aguado, José A., 2018-09-21 Technologies that enable powering a device without the need for being connected with a cable to the grid are gaining attention in recent years due to the advantages that they provide They are a commodity to users and provide additional functionalities that promote autonomy among the devices Emerging Capabilities and Applications of Wireless Power Transfer is an essential reference source that analyzes the different applications of wireless power transfer technologies and how the technologies are adapted to fulfill the electrical magnetic and design based requirements of different applications Featuring research on topics such as

transfer technologies circuital analysis and inductive power transfer this book is a vital resource for academicians electrical engineers scientists researchers and industry professionals seeking coverage on device power and creating autonomy through alternative power options for devices *The Economics of Library Acquisitions* Thomas John Pierce,1976

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Multidisciplinary Research in Arts, Science & Commerce (Volume-3) Chief Editor- Biplab Auddya, Editor- Dr. Anita Konwar, Yellapragada A S Srinivas, Dr Sharad S Chavan, V. Geetha, Gopala B, Dr. S. Saravanan,2024-08-15 **Monthly Index of Russian Accessions** ,1962

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