

Electrical Formulas

These are the Basic Electrical Formulas followed by Ohm's Law.

Variable used in these formulas are as follows:

V = Voltage in Volts

I = Current in Amperes

R = Resistance in Ohms

P = Power in Watts

VOLTAGE FORMULAS

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

Current Formulas

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

Resistance Formulas

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

Power Formulas

$$P = V \times I, \quad P = V^2 \div R, \quad P = I^2 \times R$$

Following are several additional formulas which are useful to calculate different electrical quantities such as, current, Horsepower, kW and kVA for both Single Phase and Three-Phase AC Circuits.

HP = Horsepower

EFE = Efficiency Factor (0.9 when not mentioned)

PF = Power factor (use 0.8 When not mentioned)

kW & kVA = kilowatt & kilo Volt Ampere

AC = Alternating Current

| To Find | Single-Phase | Three-Phase |
|----------------------------------|--|---|
| Current, when Motor HP is known | $\frac{HP \times 746}{V \times EFE \times PF}$ | $\frac{HP \times 746}{V \times EFE \times PF \times 1.732}$ |
| Amperes, When kW is know | $\frac{kW \times 1000}{V \times PF}$ | $\frac{kW \times 1000}{V \times PF \times 1.732}$ |
| Current, When kVA is known | $\frac{kVA \times 1000}{V}$ | $\frac{kVA \times 1000}{V \times 1.732}$ |
| kilowatts (kW) | $\frac{V \times I \times PF}{1000}$ | $\frac{V \times I \times PF \times 1.732}{1000}$ |
| kW input, when Motor HP is known | $\frac{HP \times 0.746}{EFE}$ | $\frac{HP \times 0.746}{EFE}$ |
| kilovolt-Amperes (kVA) | $\frac{V \times I}{1000}$ | $\frac{V \times I \times 1.732}{1000}$ |
| Horsepower (HP) | $\frac{V \times I \times EFE \times PF}{746}$ | $\frac{V \times I \times EFE \times PF \times 1.732}{746}$ |

Electrical Formulas In Telugu

O García



Electrical Formulas In Telugu:

AKASHVANI All India Radio (AIR), New Delhi ,1980-12-14 Akashvani English is a programme journal of ALL INDIA RADIO it was formerly known as The Indian Listener It used to serve the listener as a bradshaw of broadcasting and give listener the useful information in an interesting manner about programmes who writes them take part in them and produce them along with photographs of performing artists It also contains the information of major changes in the policy and service of the organisation The Indian Listener fortnightly programme journal of AIR in English published by The Indian State Broadcasting Service Bombay started on 22 December 1935 and was the successor to the Indian Radio Times in English which was published beginning in July 16 of 1927 From 22 August 1937 onwards it used to published by All India Radio New Delhi From 1950 it was turned into a weekly journal Later The Indian listener became Akashvani English w e f January 5 1958 It was made fortnightly journal again w e f July 1 1983 NAME OF THE JOURNAL AKASHVANI LANGUAGE OF THE JOURNAL English DATE MONTH YEAR OF PUBLICATION 14 DECEMBER 1980 PERIODICITY OF THE JOURNAL Weekly NUMBER OF PAGES 60 VOLUME NUMBER Vol XLV No 53 BROADCAST PROGRAMME SCHEDULE PUBLISHED PAGE NOS 17 54 ARTICLE 1 TV For The Millions is Still A Hope 2 How Realistic Are Our Films 3 Have a Laugh With the Limerick 4 Sanjay Gandhi Will Remain a Perpetual Inspiration 5 The Quality of Life in India and Population Control 6 When Drinking Water is the Killer 7 Interesting Light on Ancient Punjab AUTHOR 1 N L Chowla 2 Nirmal Kumar Ghosh 3 Robert Burns 4 Prabhash Chandra Misra 5 Dr K Srinivasan 6 Dr C N Nagesha 7 Dr V C Pandey Document ID APE 1980 S D Vol III 11 Prasar Bharati Archives has the copyright in all matters published in this AKASHVANI and other AIR journals For reproduction previous permission is essential **Library of Congress Subject Headings** Library of Congress,Library of Congress. Office for Subject Cataloging Policy,1991 *Library of Congress Subject Headings: A-E* Library of Congress. Subject Cataloging Division,1989 **Debates; Official Report** Andhra Pradesh (India). Legislature. Legislative Assembly,1972 **Library of Congress Subject Headings** Library of Congress. Office for Subject Cataloging Policy,1991 **Indian Books** ,1974 **Lok Sabha Debates** India. Parliament. Lok Sabha,1986 **The Academy and Literature** ,1879 The Illustrated Weekly of India ,1966-07 **The Academy** ,1879 The Century Dictionary and Cyclopedia William Dwight Whitney,Benjamin Eli Smith,1909 **Catalogue of Copyright Entries** Library of Congress. Copyright Office,1916 **Catalog of Copyright Entries** Library of Congress. Copyright Office,1915 **The Century Dictionary** ,1914 **Pharmaceutical Journal** ,1924 Academy and Literature Charles Edward Cutts Birch Appleton,Charles Edward Doble,James Sutherland Cotton,Charles Lewis Hind,William Teignmouth Shore,Alfred Bruce Douglas,Ellis Ashmead-Bartlett,Thomas William Hodgson Crosland,1879 **The Century Dictionary and Cyclopedia: The Century dictionary ... prepared under the superintendence of William Dwight Whitney ... rev. & enl. under the superintendence of Benjamin E. Smith** ,1911 *Indian National Bibliography* B. S. Kesavan,2008 *New-York*

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