

BASIC POWER SYSTEMS



V = Volts = E

KVA = Kilo Voltamperes, apparent power as measured by product of (V) (A)

KW = Kilowatts, real consumed power

KVAR = Kilo Voltamps reactive, imaginary power

I = A = Amperes current flow

θ = Angle of power triangle $\cos \theta = P.F.$

$$\cos \theta = P.F. = \text{power factor} = \frac{\text{Watts}}{\text{Volts} \times \text{Amperes}} = \frac{\text{KW}}{\text{KVA}}$$

BASIC POWER EQUATIONS

$$\text{KW} = (\text{Volts}) (\text{Amperes}) (P.F.) / 1000 \text{ for } 1\phi$$

$$= (\text{KV}) (\text{Amperes}) (PF)$$

$$\text{KW} = (\text{Volts}) (\text{Amperes}) (P.F.) (\sqrt{3}) / 1000 \text{ for } 3\phi$$

$$= (\text{KV}) (\text{Amperes}) (PF) (\sqrt{3})$$

$$\text{KVA} = (\text{Volts}) (\text{Amperes}) / 1000 \text{ For } 1\phi$$

$$= (\text{KV}) (\text{Amperes}) (PF)$$

$$\text{KVA} = (\text{Volts}) (\text{Amperes}) (\sqrt{3}) / 1000 \text{ for } 3\phi$$

$$= (\text{KV}) (\text{Amperes}) (\sqrt{3})$$

I = Current Per Phase (Amperes) (A)

$$I = \frac{\text{KVA}}{\text{KV}} \text{ For } 1\phi, I = \frac{\text{KVA}}{\text{KV} \sqrt{3}} \text{ For } 3\phi$$

Normally, either KVA or current (I) amperes is given for loads to describe how much power is consumed.

Power factor = 1 for resistive loads such as Resistance Heaters, incandescent lights, stoves or other non-motorized equipment.

Power factor < 1 for all other inductive loads such as motors, transformers, reactors and capacitors.

$$\text{KVAR} = (\text{KVA}) (\sin \theta)$$

Basic Power Systems Fs Fed

Annelies Wilder-Smith



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Okanogan National Forest (N.F.), Wenatchee National Forest (N.F.), Methow Transmission Project ,2006

Proceedings of the 27th Intersociety Energy Conversion Engineering Conference ,1992 **Commerce Business Daily** ,1998-11 Bibliography on Power System Stability--1965-1969 Institute of Electrical and Electronics Engineers,1971 *Railway Signaling and Communications* ,1961 *Guide to U.S. Government Publications* Thomson Gale,2005-08 *Intelec* ,1988 Typewriter Trade Journal and the Office System ,1923 **Proceedings of the IRE.** ,1962 Proceedings of the IRE. Institute of Radio Engineers,1962 **Annual Report of the Board of Governors of the Federal Reserve System Covering Operations for the Year ...** Board of Governors of the Federal Reserve System (U.S.),1922 International Railway Journal ,1976 **Communication and Electronics** ,1958 Transactions of the American Institute of Electrical Engineers American Institute of Electrical Engineers,1958 Index of current electrical literature Dec 1887 appended to v 5 *Government Reports Announcements & Index* ,1992-04 *Government Research Directory* ,2010 **Instruments & Control Systems** ,1961 *Dataquest* ,1995 International Index to Multi-media Information ,1975 **The Highway Engineer & Contractor** ,1923

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