

## 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

$\theta$  = Angle of power triangle  $\cos \theta = \text{P. F.}$

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

### BASIC POWER EQUATIONS

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

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

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

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

$$I = \text{Current Per Phase (Amperes) (A)}$$

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

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

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

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

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

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, incandescant 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

**American Institute of Electrical  
Engineers**



**Basic Power Systems Fs Fed:**

**Okanogan National Forest (N.F.), Wenatchee National Forest (N.F.), Methow Transmission Project** ,2006  
**Proceedings of the 27th Intersociety Energy Conversion Engineering Conference** ,1992     **Engineering** ,2001  
**Commerce Business Daily** ,1998-11     *Reliability Standards for Telecommunications Emergency Backup Power Systems and Emergency Notification Systems* California Public Utilities Commission,2008     *Automobile Trade Journal* ,1917     Brown's Directory of American Gas Companies ... ,1913     **Journal of the Engineering Institute of Canada** ,1920 Vol 7 no 7 July 1924 contains papers prepared by Canadian engineers for the first World power conference July 1924  
**The Journal of the Engineering Institute of Canada** Engineering Institute of Canada,1920     **Transactions of the American Institute of Electrical Engineers** American Institute of Electrical Engineers,1923 List of members in v 7 15 17 19 20     *Cornell University Announcements* Cornell University,1926     **Electrical World** ,1909     **Typewriter Trade Journal and the Office System** ,1923     *International Railway Journal* ,1976     **Industrial Arts Index** ,1926     *The Industrial Arts Index* ,1919     **Proceedings of the IRE.** ,1962     **Environmental Law** ,2011     *The Paper Industry* ,1929  
*Reverse Acronyms, Initialisms & Abbreviations Dictionary* Mary Rose Bonk,2003

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