

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 $\cos \theta = P.F.$

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

BASIC POWER EQUATIONS

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

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

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

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

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

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

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

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

I = Current Per Phase (Amperes) (A)

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

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.

$$KVAR = (KVA)(\sin \theta)$$

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Table of Contents Basic Power Systems Fs Fed

1. Understanding the eBook Basic Power Systems Fs Fed
 - The Rise of Digital Reading Basic Power Systems Fs Fed
 - Advantages of eBooks Over Traditional Books
2. Identifying Basic Power Systems Fs Fed
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Basic Power Systems Fs Fed
 - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Power Systems Fs Fed
 - Personalized Recommendations

- Basic Power Systems Fs Fed User Reviews and Ratings
- Basic Power Systems Fs Fed and Bestseller Lists
- 5. Accessing Basic Power Systems Fs Fed Free and Paid eBooks
 - Basic Power Systems Fs Fed Public Domain eBooks
 - Basic Power Systems Fs Fed eBook Subscription Services
 - Basic Power Systems Fs Fed Budget-Friendly Options
- 6. Navigating Basic Power Systems Fs Fed eBook Formats
 - ePub, PDF, MOBI, and More
 - Basic Power Systems Fs Fed Compatibility with Devices
 - Basic Power Systems Fs Fed Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Basic Power Systems Fs Fed
 - Highlighting and Note-Taking Basic Power Systems Fs Fed
 - Interactive Elements Basic Power Systems Fs Fed
- 8. Staying Engaged with Basic Power Systems Fs Fed
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Basic Power Systems Fs Fed
- 9. Balancing eBooks and Physical Books Basic Power Systems Fs Fed
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Basic Power Systems Fs Fed
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Basic Power Systems Fs Fed
 - Setting Reading Goals Basic Power Systems Fs Fed
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Basic Power Systems Fs Fed
 - Fact-Checking eBook Content of Basic Power Systems Fs Fed

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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