AC Power Formulas...





# **AC Power Formulas**

Calculators!

Examples!

**Conversions!** 

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#### List of 12 AC Power Formulas



AC Power Formulas...

5) Power in Single-Phase AC Circuits using Voltage





AC Power Formulas...



## Variables Used

- **I** Current (Ampere)
- IIn Line to Neutral Current (Ampere)
- Iph Phase Current (Ampere)
- Irms Root Mean Square Current (Ampere)
- P Real Power (Watt)
- **Q** Reactive Power (Volt Ampere Reactive)
- **R** Resistance (Ohm)
- S Complex Power (Volt Ampere)
- V Voltage (Volt)
- VIn Line to Neutral Voltage (Volt)
- Vph Phase Voltage (Volt)
- Vrms Root Mean Square Voltage (Volt)
- **Φ** Phase Difference (Degree)

# **Constants, Functions, Measurements used**

- Function: **cos**, cos(Angle) Cosine of an angle is the ratio of the side adjacent to the angle to the hypotenuse of the triangle.
- Function: **sin**, sin(Angle) Sine is a trigonometric function that describes the ratio of the length of the opposite side of a right triangle to the length of the hypotenuse.
- Function: sqrt, sqrt(Number) A square root function is a function that takes a non-negative number as an input and returns the square root of the given input number.
- Measurement: Electric Current in Ampere (A) Electric Current Unit Conversion
- Measurement: Power in Volt Ampere (VA), Watt (W), Volt Ampere Reactive (VAR)

Power Unit Conversion

- Measurement: Angle in Degree (°) Angle Unit Conversion
- Measurement: Electric Resistance in Ohm (Ω)
  Electric Resistance Unit Conversion
- Measurement: Electric Potential in Volt (V) Electric Potential Unit Conversion



### Check other formula lists

- AC Circuit Design Formulas C 
  RLC Circuit Formulas C
- AC Power Formulas

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