

# Power in AC Circuits

Voltage and current are both in phase.

When the voltage is at a peak positive value, the current is at peak positive value.

When the voltage is at a peak negative value, the current is at peak negative value.

The power is always positive.

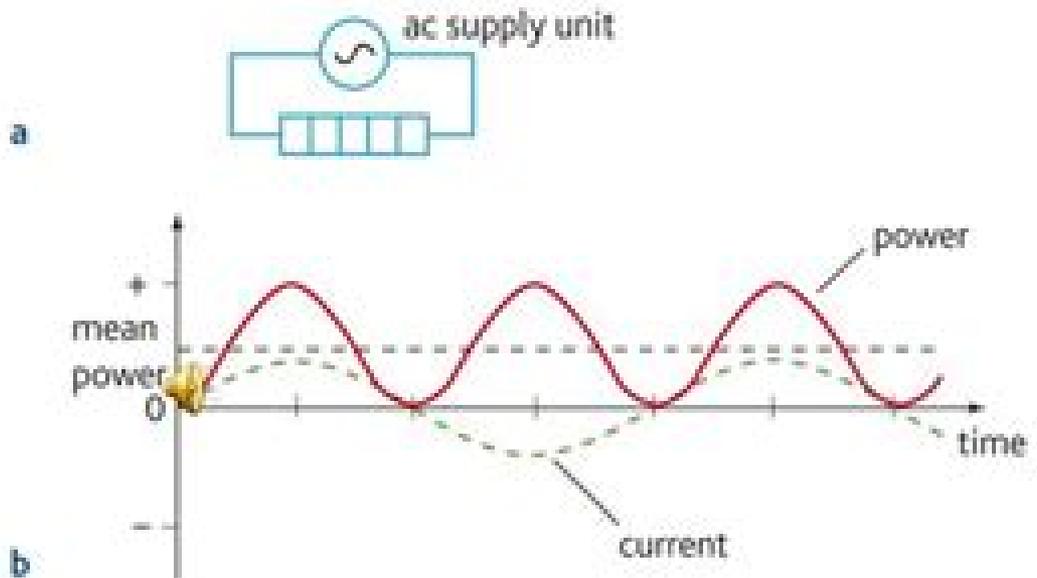
The maximum power is given by:

$$P_{max} = V_{pk} I_{pk}$$

Minimum power = 0.

Average power =

$$P_{Av} = \frac{V_{pk} I_{pk}}{2}$$



Average power = effective volts × effective amps

$$P_{Av} = \frac{V_{pk}}{\sqrt{2}} \times \frac{I_{pk}}{\sqrt{2}}$$

Therefore

$$V_{rms} = \frac{V_{pk}}{\sqrt{2}} \quad \text{and} \quad I_{rms} = \frac{I_{pk}}{\sqrt{2}}$$

# Power In Ac Circuits Clarkson University

**S Ashworth**



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