



PEI Formulas

CABLE & DISTRIBUTION

The following math formula can be used to calculate the power draw from a Tungsten fixture, or other resistive load. NOTE: This formula cannot be accurately used with HMI fixtures because the power draw of the ballast must be calculated separately from the power draw of the fixture's bulbs.

PEI Formulas

$$P = E \times I \text{ (Watts = Voltage} \times \text{Amps)}$$

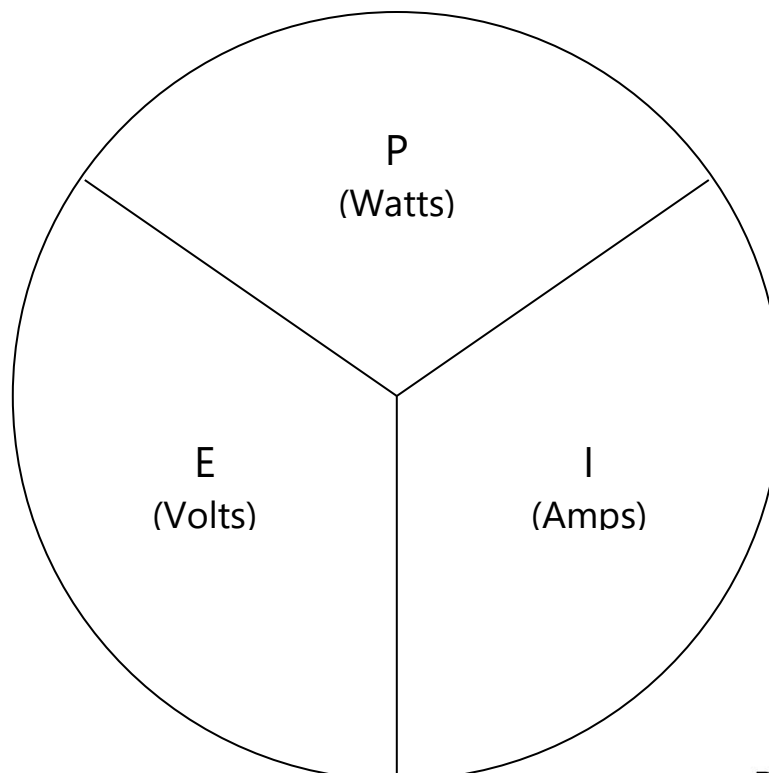
$$E = P \div I \text{ (Voltage = Watts} \div \text{Amps)}$$

$$I = P \div E \text{ (Amps = Watts} \div \text{Voltage)}$$

Example

$$10,000\text{W (10K)} = 120\text{V} \times 83.3 \text{ Amps (single leg)}$$

$$20,000\text{W (20K)} = 208\text{V} \times 96 \text{ Amps (per leg; 2 legs total)}$$



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