

R = Resistance in Ohms

I = Current in Amperes

P = Power in Watts

E = Electromotive Force in Volts

Cover the value you need then view the formula. Covering the "R" shows E over I, or E divided by I, which does equal R.

T5C08 What is the formula used to calculate electrical power (P) T5D05 What is the resistance of a circuit for which the applied in a DC circuit? voltage is 12 volts and the current flow is 1.5 amperes? $P = E \times I$ 8 ohms T5C09 How much power is delivered by a voltage of 13.8 volts T5D06 What is the resistance of a circuit that draws 4 amperes DC and a current of 10 amperes? from a 12-volt source? 138 watts 3 ohms T5D07 What is the current flow in a circuit with an applied T5C10 How much power is delivered by a voltage of 12 volts DC and a current of 2.5 amperes? voltage of 120 volts and a resistance of 80 ohms? 30 watts 1.5 amperes T5C11 How much current is required to deliver 120 watts at a T5D08 What is the current through a 100-ohm resistor voltage of 12 volts DC? connected across 200 volts? 10 amperes 2 amperes T5D09 What is the current through a 24-ohm resistor connected T5D01 What formula is used to calculate current in a circuit? across 240 volts? I = E / R10 amperes T5D02 What formula is used to calculate voltage in a circuit? T5D10 What is the voltage across a 2-ohm resistor if a current of 0.5 amperes flows through it? $E = I \times R$ 1 volt T5D03 What formula is used to calculate resistance in a circuit? R = E / IT5D11 What is the voltage across a 10-ohm resistor if a current of 1 ampere flows through it? 10 volts T5D04 What is the resistance of a circuit in which a current of 3 amperes flows when connected to 90 volts? T5D12 What is the voltage across a 10-ohm resistor if a current <u>30 ohms</u> of 2 amperes flows through it? 20 volts