

OHM'S LAW FORMULA CHART

E = ELECTRO-MOTIVE FORCE
UNIT OF MEASURE:
VOLTS

VOLTS = WATTS / AMPERES

VOLTS = AMPERES X OHMS

VOLTS = $\sqrt{\text{WATTS X OHMS}}$

$V = P / I$
 $V = I * R$
 $V = \sqrt{P * R}$

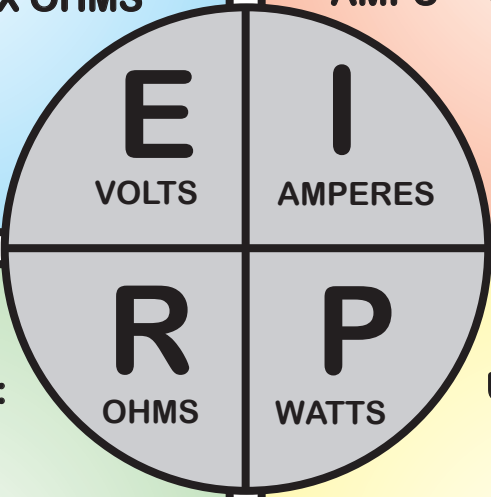
I = CURRENT
UNIT OF MEASURE:
AMPERES

AMPS = $\frac{\text{VOLTS}}{\text{OHMS}}$

AMPS = WATTS / VOLTS

AMPS = $\sqrt{\text{WATTS} / \text{OHMS}}$

$I = E / R$
 $I = P / E$
 $I = \sqrt{P / R}$



R = RESISTANCE
UNIT OF MEASURE:
OHMS

OHMS = $\frac{\text{VOLTS}^2}{\text{WATTS}}$

OHMS = WATTS / AMPERES²

OHMS = VOLTS / AMPERES

$R = E^2 / P$
 $R = P / I^2$
 $R = E / I$

P = POWER
UNIT OF MEASURE:
WATTS

WATTS = $\frac{\text{VOLTS}^2}{\text{OHMS}}$

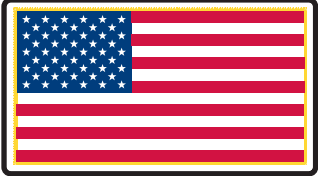
WATTS = AMPERES² X OHMS

WATTS = VOLTS X AMPERES

$P = E^2 / R$
 $P = I^2 * R$
 $P = E * I$

OHM'S LAW

"The amount of current flowing in a circuit made up of pure resistances is directly proportional to the electromotive forces impressed on the circuit and inversely proportional to the total resistance of the circuit."



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