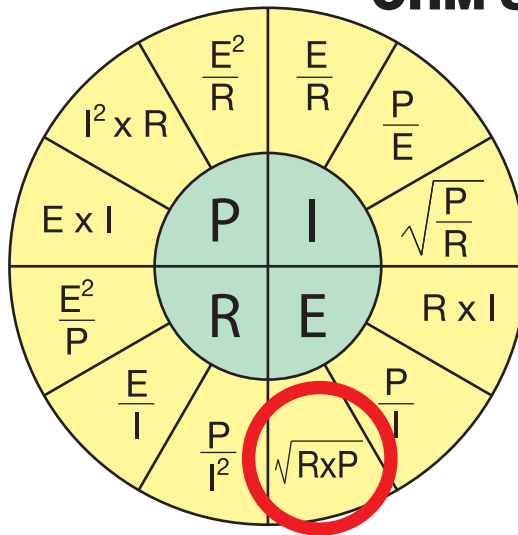


“Calculating Voltage using the OHM’s Law Wheel”

OHM’S LAW



E = Voltage
I = Amperes
R = Resistance
P = Watts

Substitute the two known values in the yellow ring to obtain the unknown value in the green ring.

What is the Voltage?

Voltage is the unit of measurement for the electromotive force in an electrical circuit, on the OHM’s Law Wheel this is denoted as “E”

if you know two of the following you can calculate it:

- Amperes
- Watts
- Resistance

Example

P = 5000 watts

R = 12 Ohms

$$E = \sqrt{P \times R} = \sqrt{5000 \times 12} = \sqrt{60,000} = 244 \text{ volts}$$

E = 244 volts

