

# Basic Electrical Theory

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1. According to Ohm's Law, increasing resistance in a circuit

- Increases the Wattage of the circuit
- Results in more work being done
- Frustrates the electrons and makes them give up
- Decreases circuit Amperage
- Increases Voltage

Question 1 of 10

2. A 5KW heatstrip rated at 230V would draw how many amps at 23V?

- 21.7 amps
- 2.17 amps
- 10 amps
- 5000 Kilowatts
- Too many
- 217

Question 2 of 10

3. Electrons contain a \_\_\_\_\_ Charge

- Negative
- Positive
- Alternating
- Wattage

Question 3 of 10

4. Atoms with \_\_\_\_\_ electrons in the outer layer (Valance) generally make better Insulators

- Fewer
- More
- Powerful

- Coulombs
- Explosion

Question 5 of 10

6. A common example of an inductive load is

- A switch
- A stove burner
- A Lightbulb
- A Motor

Question 6 of 10

7. 1 Volt is

- The Electromotive force required to drive one Ampere against one Ohm
- Not Enough
- A measure of electron speed
- The amount of force required to move one coulomb of resistance against one Watt of difference
- A theoretical state at which all matter becomes electricity

Question 7 of 10

8. A \_\_\_\_\_ is an example of a switch

- A Motor
- A Thermistor
- A Motor Overload
- A Resistor

Question 8 of 10

9. 1 HP = \_\_\_\_\_ BTUs per Hr

- 2,543.86
- 746
- 12,000
- 244,000
- 3.41
- 254.38

Question 9 of 10

10. When you install a dimmer on a incandescent light bulb and add resistance to the circuit the light will dim and the amperage of the circuit will decrease.

- True
- False

○ True but the Light will get hot and burn out  
Question 10 of 10

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