Ohm's Law

It states that "at constant temperature voltage across a resistor is directly proportional to the current flowing through the circuit".

V ∝ I or, V = IR Where, R = Resistance

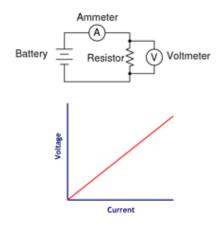


Fig: Ohm's Law

Ohm's Law

The following points may be noted about Ohm's law:

- □Ohm's law is true for DC circuits only.
- □It is true for metal conductors at constant temperature.
- □Ohm's law can be expressed in three forms. I=V/R; V=IR; R=V/I
- □If Ohm's law is expressed graphically, the graph will be a straight line passing through the origin.