

# ELECTRICITY BASICS

## What is Current?

A circuit is a closed loop that carries electricity. The electric current is the flow of electrons moving within a circuit, so current denotes the rate which charge flows. The unit we use to measure current is the ampere, often shortened to amp. Amps are telling you how many charges are moving through your circuit.

## What is Voltage?

Voltage is the "push" that causes the current to flow. It's the source. Current and voltage are then closely related because you can't have any current without something pushing it. You need a source (battery or wall socket), and the unit used to measure it is volts.

## What is Resistance?

Resistance opposes the current flow in a circuit. Different size wires, different resistors and different circuit components will provide different values of resistance. The smaller the object, the higher the resistance (for example, a large, thick copper wire will offer less resistance than a hair-thin wire). The unit used to measure resistance is the ohm, which is often shortened to the "Ω" symbol.

## Other Useful Terms

### DC vs. AC: Direct Current vs. Alternating Current

**What is direct current?** Direct current means you have a constant current flow. All batteries utilize direct current — when hooked up to a circuit, it's giving you constant voltage at the source location so the current is then constant.

**What is alternating current?** This is when the current moves back and forth. All wall sockets utilize alternating current. In the United States, this back and forth action in a wall outlet happens 60 times a second (60 Hertz or 60 Hz).

### What are Open Circuits and Short Circuits?

As opposed to a closed circuit — where the electrical current is constantly in motion around the circuit — an **open circuit** denotes a break somewhere along the circuit which stops the current. You cannot have current flow in an open circuit. When you flip a switch to "off," you're breaking the circuit.

A **short circuit** is the unintentional result of wires touching in a circuit before intended. It's called a "short" because current will always seek the path of least resistance and will then break the circuit by taking the wrong route once the circuit bridges — therefore truncating or shortening the circuit.

## BASIC ELECTRONIC COMPONENTS

Component	Symbol	Unit	Function	Image
Resistor		Ohms - Ω	limits or regulates the flow of electrical current in an electronic circuit.	

# Basic Electricity Volume 2 Direct Current Ci

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