

ELECTRICAL

Your how-to guide to basic electrical

Basics of Electricity

Ohm's Law
The relationship between voltage, current, and resistance is defined by Ohm's Law. It is the foundation of all electrical calculations.



- When a circuit is complete, a flow of electrons (current) will exist.
- The amount of current flowing through a circuit is determined by the voltage and the resistance.
- The resistance of a circuit is the opposition to the flow of current.
- The voltage of a circuit is the electrical pressure that causes current to flow.
- The power of a circuit is the rate at which electrical energy is converted into another form.

RESISTORS

Resistors are used to control the flow of current in a circuit. They are measured in ohms (Ω).

$$R = \frac{E}{I}$$

The total resistance of two resistors in series is the sum of the individual resistances.

$$R_{total} = R_1 + R_2$$

The total resistance of two resistors in parallel is the reciprocal of the sum of the reciprocals of the individual resistances.

$$\frac{1}{R_{total}} = \frac{1}{R_1} + \frac{1}{R_2}$$

When two resistors are connected in series with a voltage of 120 V:

$$R = \frac{E}{I} = \frac{120}{1} = 120 \Omega$$

When two resistors are connected in parallel with a voltage of 120 V:

$$R = \frac{120}{2} = 60 \Omega$$

When two resistors are connected in series with a voltage of 120 V:

$$R = \frac{120}{1} = 120 \Omega$$

Basic Calculations

HOW TO CALCULATE THE MONTHLY ELECTRICITY COST FOR APPLIANCES

- STEPS**
1. Determine the wattage of the appliance.
 2. Determine the number of hours the appliance is used per month.
 3. Calculate the total watt-hours used per month.
 4. Convert watt-hours to kilowatt-hours (kWh).
 5. Multiply kWh by the utility rate to find the monthly cost.

SAMPLE CALCULATION OF COST TO OPERATE A 1,500-WATT ELECTRIC WATER HEATER

1,500 watts = 1.5 kW
 2.5 x 30 = 75 kWh per month
 75 kWh x \$0.10 per kWh = \$7.50 per month
 75 kWh x \$0.15 per kWh = \$11.25 per month
 Total cost to operate = \$18.75 per month

Wattage	Hours	kWh	Cost (\$)
100	1	0.1	0.10
100	2	0.2	0.20
100	3	0.3	0.30
100	4	0.4	0.40
100	5	0.5	0.50
100	6	0.6	0.60
100	7	0.7	0.70
100	8	0.8	0.80
100	9	0.9	0.90
100	10	1.0	1.00
100	11	1.1	1.10
100	12	1.2	1.20
100	13	1.3	1.30
100	14	1.4	1.40
100	15	1.5	1.50
100	16	1.6	1.60
100	17	1.7	1.70
100	18	1.8	1.80
100	19	1.9	1.90
100	20	2.0	2.00

WATTAGE
The power consumed by an appliance is measured in watts. It is the product of voltage and current.

WATT-HOURS
The total energy consumed by an appliance is measured in watt-hours. It is the product of wattage and time.

KILOWATT-HOURS
The total energy consumed by an appliance is measured in kilowatt-hours. It is the product of kilowattage and time.

ELECTRICITY FACTS
Electricity is a form of energy that can be converted into other forms of energy. It is the most common form of energy used in homes.

ELECTRICITY COSTS
The cost of electricity varies by location and usage. It is typically measured in cents per kilowatt-hour.

ELECTRICITY SAFETY
Always use proper safety techniques when working with electricity. Never touch live wires, and always use insulated tools.

Receptacle How-To's

DUPLEX RECEPTACLE OUTLETS



When installing a duplex receptacle, make sure the line and load wires are connected to the correct terminals. The ground wire should be connected to the ground screw.

- STEPS**
1. Turn off the power to the circuit.
 2. Remove the old receptacle.
 3. Connect the new receptacle to the wiring.
 4. Replace the cover plate.
 5. Turn the power back on.

240-VOLT RECEPTACLE OUTLETS

240-volt receptacles are used for high-power appliances. They have two line terminals and two load terminals. The ground wire should be connected to the ground screw.

- STEPS**
1. Turn off the power to the circuit.
 2. Remove the old receptacle.
 3. Connect the new receptacle to the wiring.
 4. Replace the cover plate.
 5. Turn the power back on.

GROUND-PROTECTED RECEPTACLE OUTLETS



Ground-protected receptacles provide added safety by ensuring the ground wire is always connected. They are used in areas where safety is a concern.

- STEPS**
1. Turn off the power to the circuit.
 2. Remove the old receptacle.
 3. Connect the new receptacle to the wiring.
 4. Replace the cover plate.
 5. Turn the power back on.

PREPARING NM CABLES FOR TERMINATIONS
When terminating NM cables, strip the insulation from the conductors. Use a sharp knife to strip the insulation, and be careful not to damage the conductors.

TERMINATING NM CABLES
When terminating NM cables, use the correct technique for each type of connection. For a screw terminal, wrap the wire around the screw and tighten it. For a push-in terminal, insert the wire into the terminal and push it in.

INSULATING NM CABLES
When insulating NM cables, use the correct technique for each type of connection. For a screw terminal, wrap the wire around the screw and tighten it. For a push-in terminal, insert the wire into the terminal and push it in.

TESTING NM CABLES
When testing NM cables, use the correct technique for each type of connection. For a screw terminal, wrap the wire around the screw and tighten it. For a push-in terminal, insert the wire into the terminal and push it in.

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Camilla Rothe



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The New Electrical Encyclopedia ,1952 **MotorBoating** ,1966-09 **Motor** ,1914 Japan Magazine ,1960
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