Electrical conversion Formulas

Converting Amps to Watts

The conversion of Amps to Watts at fixed voltage is governed by the equation Watts = Amps x Volts

For example 1 amp * 110 volts = 110 watts

Converting Watts to Amps

The conversion of Watts to Amps at fixed voltage is governed by the equation Amps = Watts/Volts

For example 12 watts/12 volts = 1 amp

Converting Watts to Volts

The conversion of Watts to Volts at fixed amperage is governed by the equation Volts = Watts/Amps

For example 100 watts/10 amps = 10 volts

Converting Volts to Watts

The conversion of Volts to Watts at fixed amperage is governed by the equation Watts = Amps x Volts

For example 1.5 amps * 12 volts = 18 watts