

Power

$$P=VI$$

P= power in Watts (W)

V= potential difference in Volts (V)

I= current intensity in amperes (A)

e.g. 1 What is the power used by a hair dryer if it is connected to a 120-V outlet, and if the hair dryer draws 14 A.

e.g. 2 Calculate the power supplied by a 9-V battery that draws a current of 0.030 A.

e.g. 3 An electric heater draws 4.0 A from a 120 V line.
What is its power rating?

e.g. 4 A lamp is connected to a 6 V battery. An ammeter indicates that the current in the circuit is 2.5 A. What is the power consumed by the lamp?