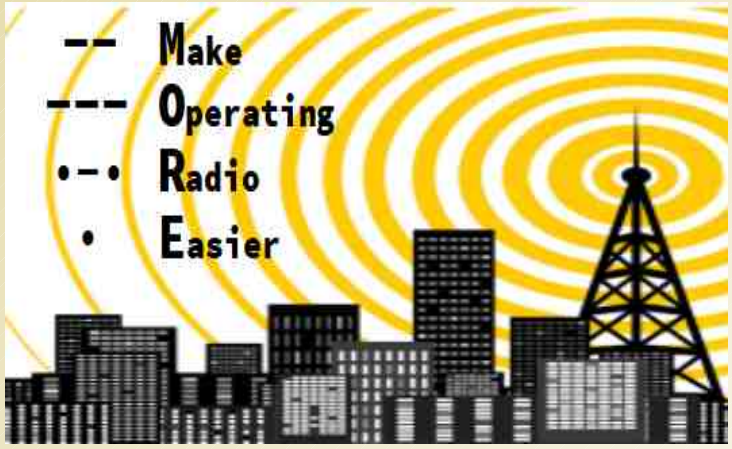
Technician Question Pool
July 2022 to June 2026

The MORE Project

http://n2re.org/m-o-r-e-project



Electrical Principles
No-Nonsense page 16 - 17

DC Power

Power is the rate at which electrical energy is generated or consumed.
Power is measured in watts (W).
Current is measured in amperes (A).
We use the letter P to stand for power, the letter I to stand for current, and the letter E to stand for voltage.
The power formula is: P = E x I
The current formula is: I = P / E

T5A10

Which term describes the rate at which electrical energy is used?

A. Resistance
B. Current
C. Power
D. Voltage

T5A10

Which term describes the rate at which electrical energy is used?

A. Resistance
B. Current
C. Power
D. Voltage

T5A02

Electrical power is measured in which of the following units?

A. Volts
B. Watts
C. Watt-hours
D. Amperes

T5A02

Electrical power is measured in which of the following units?

A. Volts
B. Watts
C. Watt-hours
D. Amperes

T5C08

What is the formula used to calculate electrical power (P) in a DC circuit?

A. P = E x I
B. P = E / I
C. P = E - I
D. P = E + I

T5C08

What is the formula used to calculate electrical power (P) in a DC circuit?

A. P = E x I
B. P = E / I
C. P = E - I
D. P = E + I

T5C09

How much power is delivered by a voltage of 13.8 volts DC and a current of 10 amperes?

A. 138 watts
B. 0.7 watts
C. 23.8 watts
D. 3.8 watts

T5C09

How much power is delivered by a voltage of 13.8 volts DC and a current of 10 amperes?

A. 138 watts
B. 0.7 watts
C. 23.8 watts
D. 3.8 watts

T5C10

How much power is delivered by a voltage of 12 volts DC and a current of 2.5 amperes?

A. 4.8 watts
B. 30 watts
C. 14.5 watts
D. 0.208 watts

T5C10

How much power is delivered by a voltage of 12 volts DC and a current of 2.5 amperes?

A. 4.8 watts
B. 30 watts
C. 14.5 watts
D. 0.208 watts

T5C11

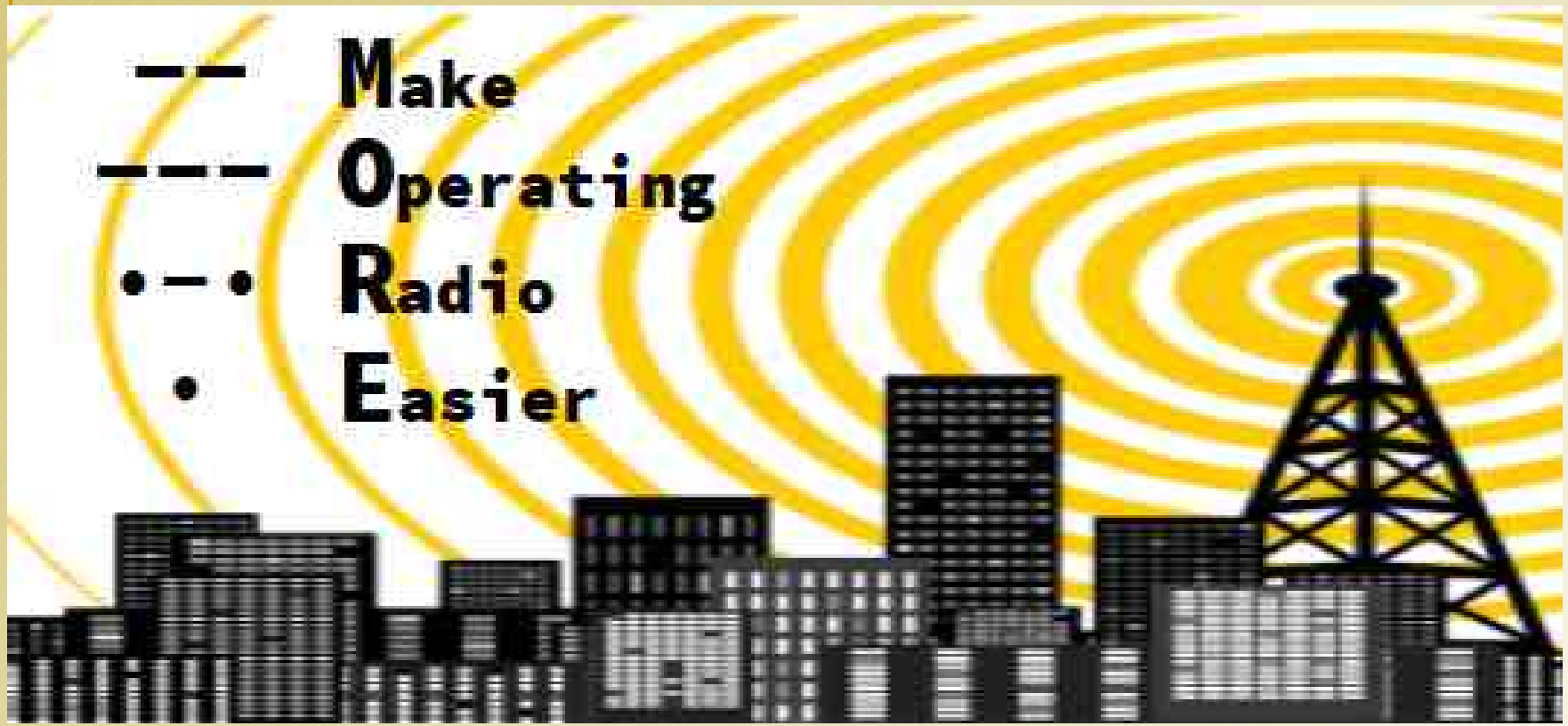
How much current is required to deliver 120 watts at a voltage of 12 volts DC?

A. 0.1 amperes
B. 10 amperes
C. 12 amperes
D. 132 amperes

T5C11

How much current is required to deliver 120 watts at a voltage of 12 volts DC?

A. 0.1 amperes
B. 10 amperes
C. 12 amperes
D. 132 amperes



A non-profit initiative by the IEEE and ARDC to increase the numbers of youth (12-18) and non-males in Amateur Radio. Participants earn FCC licenses and receive free 2-way radios.

For MORE information: n2re.org/m-o-r-e-project
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