

Welding Principles and Applications - Chapter 3

Review 2023

Amperage - ANSWER A measurement of the rate of flow of electrons; amperage controls the size of the arc.

Anode - ANSWER Material with a lack of electrons; thus, it has a positive charge

Cathode - ANSWER A natural curve material with an excess of electrons, thus having a negative charge

Duty Cycle - ANSWER The percentage of time during a specified test period that a power source or its accessories can be operated at rated output without over heating.

Electrons - ANSWER Small particle of an atom whose movement is associated with electrical flow.

Inverter - ANSWER Smaller welding machines of the same amperage range.

Magnetic Flux Lines - ANSWER Parallel lines of force that always go from

Open Circuit Voltage - ANSWER The voltage between the output terminals of the power source when the output terminals voltage is applied.

Operating Voltage - ANSWER It is the actual voltage across the arc at the actual current voltage.

Drop - ANSWER The voltage power source provides a consistently high open circuit voltage but the arc is stable.

Resistor - ANSWER When connected in the circuit it reduces only.

Step Down Transformer - ANSWER A transformer with more turns of wire on the primary winding than the secondary winding.

Voltage - ANSWER The measurement of the force of pressure in the circuit that provides an upward force to a component of a circuit.

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