



Product Code . JL-LEP-10419

Motor Generator Model Experiment Set

Description

Specifications:

This is used to demonstrate the conversion of electrical energy to mechanical energy when set to motor function and vice versa when set to generator function

DC motor mode, runs on 6 volts -12 volt

Can function as generator when the armature is rotated; AC-DC generator output is determined by commutator configuration

Selectable split-ring and slip-ring commutator that enables AC-DC output w/o changing the direction of rotation of the rotor

Binding posts, for external connections, labeled with "motor input: 6 V-12 VDC" and "generator output", unit should be free of indicator bulbs

Rotor should be concentric with the stator to produce equal air gap

Stator is activated by a permanent magnet. Stator assembly should have one color except blue and red; Example all yellow, all white or all black stator assembly.

Armature diameter: 68 mm minimum


Armature shaft diameter: Ø 8 mm minimum, w/ rigid mounting;

Drive pulley, plastic, diameter: 168 mm minimum

Driven pulley diameter: 26 mm minimum, steel nickel plated

Base wooden board minimum dimensions: 200 mm x 300 mm x 19 mm

As per DEPED Guidelines.

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