



Energy saving and extended mileage are very important for battery-operated electric vehicles (BEV). Regenerative braking performances are the key for saving energy in BEV's. Trainer introduces Permanent Magnet DC (PMDC) motor based regenerative braking to improve energy efficiency in BEV. The kinetic energy of the motor is returned to the battery system in regenerative charging.

46995 Trainer is an ideal platform to enhance vocational training, skills & development. This product clarifies the fundamentals of functioning of regenerative braking and also explains the regenerative charging technique used in Electric Vehicles.

Features

- Provided with digital tachometer for speed measurement.
- Provided with high quality meters.
- Provided with DC power supply.
- Diagrammatic representation for the ease of connections.
- Designed considering all safety standards.

Experiments

- Study of Regenerative braking of PMDC motor.
- Study of charging of battery by regenerative braking.
- Study of perform no load test of PMDC motor.

Technical Specifications

Machine Type	:	PMDC
Voltage Rating	:	100W watt approx.
Voltage	:	24V
Current	:	5 A (approx.)
Speed	:	2500 RPM \pm 10%
Power Supply	:	24V, 10A
Line Input Voltage	:	Single Phase, 230V \pm 10%, 50Hz.

Digital Meters

DC Voltmeter	:	300V
DC Ammeter	:	20A
Digital Tachometer	:	0-9,999 RPM

Accessories

- Operating Manual-1 nos
- Patch Cord-10 nos
- Power Cord-1 nos

Note: Specifications are subject to change.