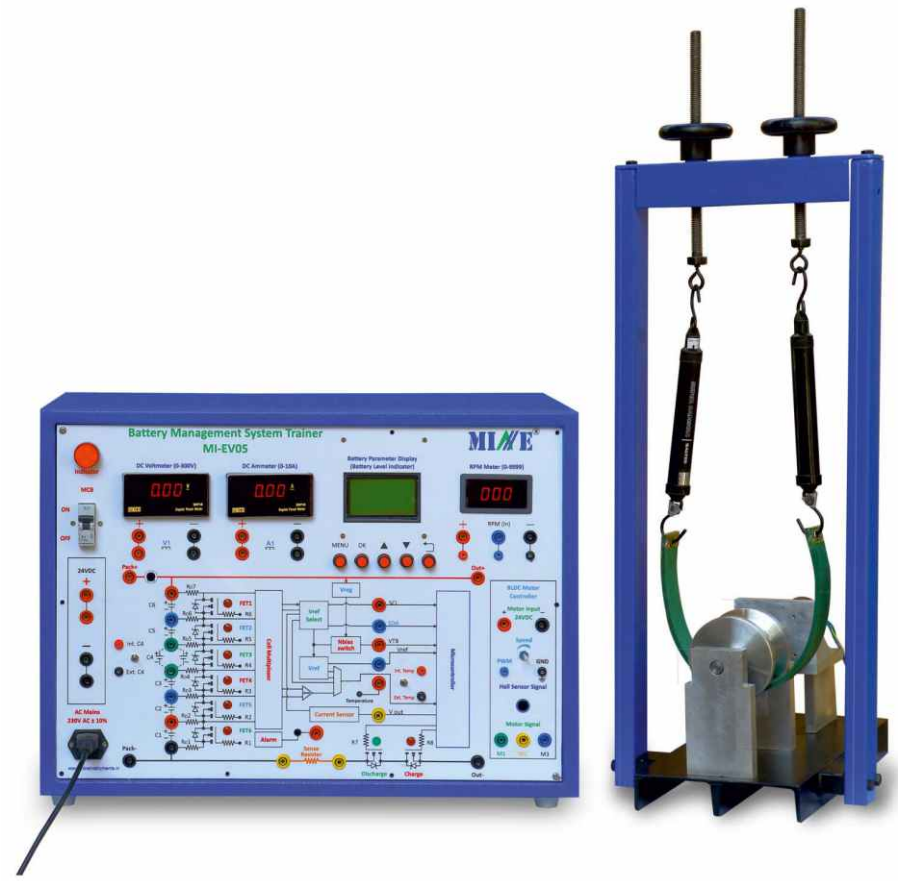
MI/E®
You Think, We Will make it.

Battery Management System Trainer

MI-EV15



Battery Management System Trainer is an electronic system which manages a battery or a pack of cells. It monitors and controls battery critical parameters, estimate its state, balancing and make sure that they operate in recommended safe conditions. A battery plays a key role in the fields of military, transportation, communication especially in portable devices like mobile phones, electric vehicles and appliances. The rechargeable electric battery is the most common and widespread device used to store electro-chemical energy for power systems. BMS is defined as which manages, control and monitor the conditions of battery.

Features

- Temperature measurement
- Cell balancing
- Voltage measurement of each cell
- Current measurement
- Motor Assembly Mechanical Arrangement for Experiments

Experiments

- Evaluation of charging characteristics of Battery.
- Explain thermal shutdown using BMS.
- Explain over current protection in BMS during discharge of a Battery.
- Explain Cell Balancing and it types.
- Perform Passive cell Balancing phenomenon in a 6-Cell Battery.

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Technical Specifications

Battery Pack (Cell-6nos.)

Type	:	LiFePo4
Cell Voltage	:	3.3V to 4V
Connection Type	:	Series

Measuring Meters

DC Voltmeter	:	0-300V
DC Ammeter	:	0-10A
Digital RPM Meter (0-9999 Count)	:	1nos.
Digital Graphical LCD (128x64)	:	1 nos.

BLDC Machine

Voltage Rating	:	24V/110W Approx.
Speed	:	3000 rpm ± 10%
BLDC Motor Controller (inside of Trainer)	:	1nos.
Motor Speed Control	:	PWM
Loading arrangement	:	Mechanical
Brake Drum/Pulley	:	Aluminum casted
Spring Balance	:	25 Kg 2nos.
Power supply	:	24VDC.
Mains Supply	:	Single Phase, 230V ±10%, 50Hz
Interconnection	:	4mm Patch cord
Weight	:	18Kg (Approx.)
Dimensions	:	L=590mm, W=350mm, H = 430mm (Approx.)

Accessories

- Operating Manual-1nos.
- Patch Cord-10 nos.
- Mains Cord-01 nos.
- Wall poster with attractive study content - 2Qty. (Optional)


Operating Manual


Mains Cord


Patch Cord

Mine Instruments Pvt. Ltd. An ISO 9001:2015 Certified Company

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