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Product Name :

Electric Vehicle Energy Management Training Equipment

Product Code :

SLE/ATE/30



Description :

Electric Vehicle Energy Management Training Equipment (Product Code: SLE/ATE/30) is a panel trainer used to show how energy flows through an electric vehicle drive system in automobile engineering and EV technology classrooms. It simulates six conditions — start, low speed, general driving, full speed, slowing down and stop — with LED energy-flow paths and an analog motor, and runs from 220V AC with no battery to charge. **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM engineering lab equipment manufacturer, makes it at its own factory in Ambala, India.

Specifications

Parameter	Detail
System	Electric vehicle energy management system
Simulated conditions	Six: start, low speed, general driving, full speed, slow down and stop
Panel controls and indicators	Ignition switch, operating condition switch, throttle pedal, gear switch, brake switch, digital tachometer, current indicator, etc.
Energy-flow display	Light-emitting diode system showing the dynamic direction of energy flow
Motor demonstration	Analog motor used to demonstrate the working status of themotor
Power supply	220V AC input; internal transformer-rectifier circuit provides 12V DC; no battery required
Protection	Anti-short-circuit function on the 12V DC supply
Operating temperature	-40 °C to +50 °C
Size	1,600 × 700 × 1,700 mm
Training content	Components of an electric vehicle energy management system and how they work
Product code	SLE/ATE/30
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the EV Energy Management Trainer Used For?

The instructor switches on the ignition, selects each condition in turn with the operating condition switch and uses the throttle pedal, gear switch and brake switch much as a driver would. As the trainer moves from start through low speed, general driving and full speed to slowing down and stop, the LED paths show which way energy is flowing while the analog motor, digital tachometer and current indicator show how hard the motor is working. Students quickly see that energy flow differs in each phase of a journey, which is the core idea of EV energy management.

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