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Product Name :

Electric Vehicle Energy Management Training Equipment

Product Code :

SLE/ATE/30



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Description :

The Electric Vehicle Energy Management Training Equipment is a panel trainer that shows how energy moves through an electric vehicle drive in six conditions, fromstart to stop. LED paths show the direction of energy flow and an analog motorshows the motor's working state. The panel runs from 220V AC through an internal12V DC supply, so it needs no battery.

EV energy management trainer specifications

Parameter	Detail
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 andother parts
Energy-flow display	Light-emitting diode system showing the dynamic direction of energy flow
Motor demonstration	Analog motor showing the working status of the motor
Power supply	220V AC input; internal transformer-rectifier circuit gives 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
Minimum order	10 units
Dispatch	Usually within 7 to 10 working days
Manufacturer	ScienceLab (Jain Scientific Equipments Pvt Ltd), Ambala, India

Classroom exercises on the EV energy-flow panel

Six-condition energy log. Switch on the ignition, then step through start, low speed, general driving, full speed, slow down and stop with the operating condition switch. For each condition, students sketch the LED energy-flow path and note the tachometer and current readings in one table. The finished table shows how motor speed and current change over a journey.

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