



**UNIVERSE**

## **ALTERNATOR TRAINER AZA1247**

The AZA1247 Alternator Trainer is a hands-on automotive electrical training system designed to demonstrate the construction, operation, diagnostics, and voltage regulation behavior of an automotive alternator with external voltage regulation.

Built using OEM automotive components, the trainer provides a realistic and safe educational platform for students, technicians, and trainees to study vehicle charging systems through practical experimentation and live electrical measurements.

The system accurately simulates real vehicle alternator operation using an AC motor-driven arrangement, enabling learners to observe:

- Alternator voltage generation
- Charging current behavior
- External voltage regulation
- Load response characteristics
- Electrical diagnostics procedures

The AZA1247 is ideally suited for:

- Automotive engineering institutes
- ITIs and vocational training centers
- Polytechnic colleges
- Automotive service technician programs
- Electrical and electronics training laboratories

Its compact design, integrated instrumentation, and diagnostic facilities make it an effective platform for both theoretical learning and practical skill development





## UNIVERSE TECHNICAL SPECIFICATIONS

Parameter	Specification
Model	AZA1247
System Type	Automotive Alternator Trainer (External Regulation)
Drive System	AC Electric Motor
Power Supply	120V AC Motor Drive
Instrumentation	Built-In Voltmeter & Ammeter
Voltage Regulation	External Voltage Regulator
Drive Belt	Enclosed with Safety Shield
Diagnostic Test Points	Provided
Dimensions (L × W × H)	800 × 600 × 500 mm
Weight	65 kg