



The Mine MI-ET07A Transformer Trainer is a valuable electrical laboratory kit designed for hands-on learning. It provides all necessary inputs and connections for studying the basic concepts and operation of transformers. The kit covers essential topics like polarity, turns ratio, transformation ratio, iron loss, copper loss, efficiency, and more, making it an ideal standalone device for learning about single-phase transformers.

## Features

- Featuring an inbuilt single-phase Variac, this system allows precise control over the output voltage.
- Equipped with a supply indication lamp, users can easily monitor the operational status.
- The system supports both fixed and variable loads, making it adaptable for different types of electrical applications.
- The unit is designed to be configured as a step-up, step-down, or isolation transformer, providing flexibility in voltage regulation.

## Experiments

- The Polarity Test of Transformer.
- The Transformation ratio and Turns Ratio.
- The Open Circuit Test of Transformer
- The Short Circuit Test of Transformer
- Measurement of Efficiency and Regulation by Load Test of Transformer

## Technical Specifications

### Single Phase Transformer

- Rating : 1kVA
- Primary Voltage: 0-230V
- Secondary Voltage: 0-115V

### Single Phase Auto Transformer

- Primary Voltage : 230V
- Secondary Voltage: 0-270V
- Rated Current : 15A

### Digital Meters

- AC Voltmeter: 500V (2nos.)
- AC Ammeter : 5A (1nos.), 10A (1nos.)
- Wattmeter : 230V, 5A (1nos.), 115V, 10A (1nos.)
- MCB (SPN) : 6A
- Main Supply: Single Phase, 230V AC  $\pm 10\%$ , 50Hz
- Lamp Load: 1Phase/3Phase

### Accessories

- Operating Manual, Mains Cord, Patch Cord

### Electronic Worktable

#### Features

- Four AC plug sockets are integrated into the workbench, each socket equipped with an independent ON/OFF switch, allowing users to control the power supply for each socket individually.
- The work tables are designed for easy electrical series connectivity, enabling a seamless and organized setup for multiple workstations.
- Every work table comes with its own power cable and three-pin AC plug to ensure convenient and secure power access.
- Comfortable stool.

#### Specifications

- Stainless Steel Material
- 1200mm (Length)
- 700 mm (Depth)
- 1120 mm (Height)
- Table Top made of : Plywood (thickness : 18mm)  
& MICA (thickness : 1mm)



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