



The Mine MI-ET23 Parallel Operation of Two Single Phase Transformer system is designed to demonstrate the fundamental concepts of connecting single-phase transformers in parallel. It allows transformers to be loaded beyond their individual ratings, enabling students to analyze parallel operation and its effects. The system also helps students understand the significance of transformer polarity, providing a comprehensive and engaging learning experience about the operation of single-phase transformers.

## Features

- The system features two identical single-phase transformers, providing reliable voltage transformation for various needs.
- It offers the facility to use both fixed and variable loads, making it adaptable to different electrical setups.
- Supply indication lamps are incorporated for easy monitoring of the power status, improving operational awareness.
- The design adheres to all necessary safety standards, ensuring safe and secure usage.
- A diagrammatic representation is included, providing an easy-to-follow guide for connecting the transformers properly.

**Experiments**

- Parallel operation of two single phase transformers with unequal voltage ratio
- Polarity test under two single phase transformers
- Parallel operation of two single phase transformers with equal voltage ratio

**Technical Specifications****Single Phase Transformer (2 nos.)**

- Rating : 1kVA
- Primary Voltage: 0-230V
- Secondary Voltage: 0-200-230V

**Digital Meters Used**

- AC Voltmeter:500V (2 nos.)
- AC Ammeter : 10A (2 nos.)
- MCB (SP): 16A

**Lamp Load: 4A/12A**

- Mains supply: Single Phase, 230V±10%, 50Hz

**Accessories**

- Operating Manual
- Mains Cord
- Patch Cord

**Heavy Duty Vibration-Free Workbench****Features**

- Comfortable Stool
- Heavy-Duty Structure
- High-Quality Benchtop: Durable plywood or granite for a smooth, stable surface.

**Technical Specifications**

- Material: Mild Steel
- Length:1200mm
- Depth: 700 mm
- Height: 800 mm
- Table Top: Plywood/Granite



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