



Application

This setup is designed to conduct:

- Open Circuit (No-Load) Test
- Short Circuit Test

on a single-phase transformer for determination of core losses, copper losses, efficiency, and equivalent circuit parameters. The system is suitable for electrical engineering laboratories and technical training institutes.

System Configuration

Each setup consists of the following modules:

Variable AC Power Supply

- Type: Dimmer controlled AC supply
- Output Voltage Range: 0–230V AC
- Current Rating: 2A
- Smooth and continuous voltage variation for controlled testing

Multifunction Metering System

- Measurement Parameters: Voltage, Current, Power
- Wattmeter Configuration:
 - Low Power Factor (LPF) Wattmeter
 - Normal Power Factor Wattmeter
- Measurement Ranges:
 - Voltage: 0–300V
 - Current: 0–10A / 20A
 - Power: 0–600W
 - Current Coil Range: 0–1A / 2A

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Suitable for accurate measurement during open circuit and short circuit tests

Single-Phase Transformer

- Rating: 500 VA
- Primary Voltage Tappings: 0–115V / 199V / 230V
- Secondary Voltage: 0–200V
- Designed for laboratory testing and performance evaluation

Functional Features

- Enables determination of core (iron) losses through open circuit test
- Enables determination of copper losses through short circuit test
- Supports calculation of efficiency and voltage regulation
- Safe and controlled operation with adjustable input supply

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