



Application

This experimental setup is designed to:

- Measure power consumption of a fluorescent lamp
- Study voltage–current (V–I) characteristics of an incandescent lamp

The system enables practical analysis of lighting loads under varying voltage conditions and is suitable for electrical engineering laboratories and technical training institutes.

System Configuration

Each setup consists of the following components:

Variable AC Power Supply

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

Multifunction Meter

- Measurement Parameters: Voltage and Current
- Voltage Range: 0–300V
- Current Range: 0–10A / 20A
- Digital display for accurate monitoring

Fluorescent Lamp Unit

- Lamp Rating: 40W
- Suitable for power consumption measurement
- Configured for AC operation

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



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Incandescent Lamp Unit

- Lamp Rating: 100W
- Used for plotting voltage–current (V–I) characteristics
- Suitable for variable voltage testing

Functional Features

- Enables comparison of power consumption between different lamp types
- Facilitates plotting of V–I characteristics for incandescent lamp
- Demonstrates behavior of resistive and discharge lighting loads
- Safe and structured panel design for laboratory use

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