

Product Name :
Inverter Trainer

Product Code :
NLAB-ELECTRONICSAB210019



Description :

Inverter Trainer

Technical Specification :

The Inverter trainer is a versatile training System for Laboratories. It is designed such that all the basics of Inverter can be easily understood. This training system provides understanding about conversion of DC into AC by PWM Technique. Different blocks are explained like charging of battery, DC to AC conversion, AC mains sensing circuit, etc. also provided with fault switches to develop the troubleshooting practice.

Technical Specifications:

Rated Power : 60 Watt

Power Supply : 230 V \pm 10%, single phase, 50 Hz

Charging Transformer : Step down type,

Input voltage : 230 V

Output voltage : 16 V

Inverter Transformer : Step up type

Input voltage : 0 -12 V

Output voltage : 230 V

Inverter output voltage : 230 V $\pm 10\%$

50 Hz $\pm 5\%$

Inverter voltage control : By PWM technique

Battery : 12 V DC /7.5 Ah /12 Hours

Relay : 2 Pole/12 V/285 W

LED Indicators : Inverter ON, mains ON, charging ON

Fuse for inverter protection : 1 A

(on Trainer board)

Mains Fuse : 1 A

Feature

PWM Inverter Technology

Stand alone operation

Compact design

Self explained layout

Provided with Rechargeable battery

On board LED indication for mains, charging, inversion etc.

Insulated sleeves on test points for safety

Experiments that can be performed

To understand the function of Inverter Trainer

To understand the function of Inverter in presence of main supply and understand the charging of battery

To understand the working of Relay

To study the AC Mains sensing circuit of Inverter

To study the Inverter circuit

To study the different faults and there troubleshooting in Inverter circuit

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