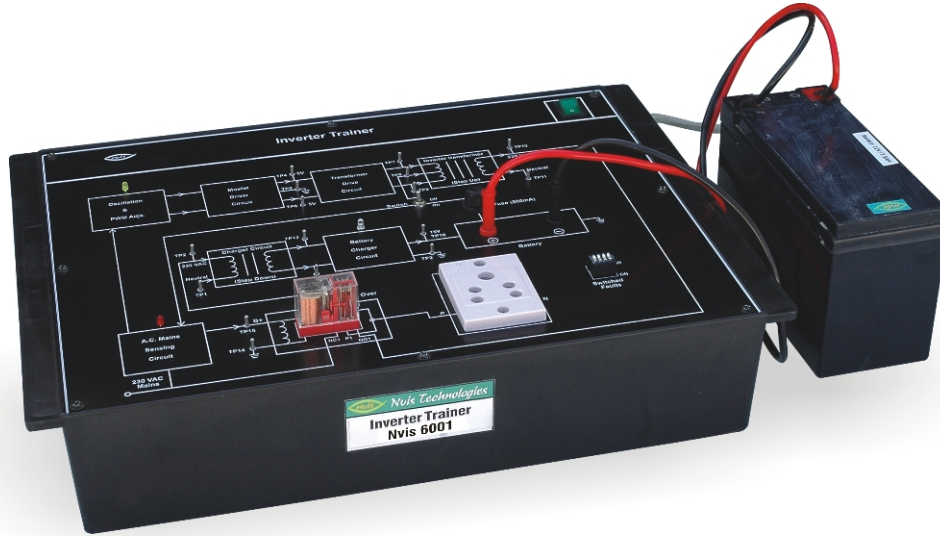




Inverter Trainer

Nvis 6001



Nvis 6001 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. Nvis 6001 is also provided with fault switches to develop the troubleshooting practice.

Features

- 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

Scope of Learning

- To understand the function of Inverter Trainer
- To understand the function of Inverter in presence of mains 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

Technical Specifications

Rated Power	: 60W
Charging Transformer	: Step down type
Input voltage	: 230V
Output voltage	: 16V
Inverter Transformer	: Step up type
Input voltage	: 12-0-12V
Output voltage	: 230V
Inverter output voltage	: 230V \pm 10%
	50Hz \pm 5%
Inverter voltage control	: By PWM technique
Battery	: 12V DC /7.5Ah /12 Hours
Relay	: 2 Pole/12V/285W
LED Indicators	: Inverter ON, mains ON, charging ON
Fuse for inverter protection (on Trainer board)	: 1A
Mains Fuse	: 1A
Mains Supply	: 230V \pm 10%, 50Hz
	Single Phase
Dimensions (mm)	: W 365 x D 260 x H 120
Optional	
PowerScope 'Scientech 829'	
Multimeter 'Scientech 50/51'	

Designed and Manufactured in India by -

Nvis Technologies Pvt. Ltd.

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