



The Inverter trainer is a very versatile training system, has been designed to explain a very interesting and frequently used switching based power supply - The Inverter (Uninterrupted Power Supply). The product is designed keeping in mind that a student can understand each block of Inverter in a very easy way. Various test points have been provided so that one can check inputs and outputs of each block contained. Being different from a conventional block diagram internal structure of blocks is also shown. AVR (Automatic Voltage Regulator) is presented in such a way that a student can readily understand its functioning and pin configuration. Since Inverter is different from an inverter because its switching changeover time is less than 3 mS which is very less so a computer system doesn't get reboot.

Technical Specification

Input : 190 to 260 V 10%, 50 Hz

Output : 230 V

Transformer specifications

Input : 12 - 0 - 12 V

Outputs : 0, 190, 220, 240, 260 V

18 - 0 for battery charging

- In depth explanation of PWM switching technology, which is one of the most important feature of Inverter
- A Low cost product demonstrating all basic concepts of Inverter
- Various test points are provided so that one can easily measures the voltages of different sections
- Designed considering all safety standards
- Provided with a detailed Operating manual

Experiments than can be performed

- Study of PWM Technology
- To understand the overall functioning of Inverter Trainer
- Study of AVR transformer section of Inverter
- To study the Inverter circuit in load condition
- To identify different faults and to study the systematic procedure of their troubleshooting in Inverter circuit

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tesca.in