

Product Name :

UPS Trainer & UPS Training Kit for Vocational Training and Didactic Labs

Product Code :

CON-011-NE



Description :

Equipment for Education, Engineering and Vocational Training - UPS Trainer & UPS Training Kit - The UPS trainer is a very versatile training system, has been designed to explain a very interesting and frequently used switching based power supply - The UPS (Uninterrupted Power Supply). The product is designed keeping in mind that a student can understand each block of UPS 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 UPS 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.

In depth explanation of PWM switching technology, which is one of the most important feature of UPS

A Low cost product demonstrating all basic concepts of UPS

Various test points are provided so that one can easily measure the voltages of different sections

Designed considering all safety standards

Provided with a detailed Operating manual

Technical Specifications

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

Experiments that can be performed

Study of PWM Technology

To understand the overall functioning of UPS Trainer

Study of AVR transformer section of UPS

To study the UPS circuit in load condition

To identify different faults and to study the systematic procedure of their troubleshooting in UPS circuit

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