Product Name :	**Product Code :**
SMPS Trainer & SMPS Lab Training Kit for Vocational Training and Didactic Labs	CON-012-NE

Description :

Equipment for Education, Engineering and Vocational Training - SMPS Trainer & SMPS Lab Training Kit - The SMPS trainer is a very adaptable product that has been designed to explain a very remarkable and frequently used Switching based power supply - The SMPS (Switched Mode Power Supply). The Trainer is designed to understand each section of SMPS in straight forward way. Various test points has been provided so that one can observe the inputs and outputs of each block contained.Being different from a conventional block diagram internal structures of different blocks are also shown. Switching Transformer and Chopper (the Heart of SMPS) are alsopresented to readily understand their operation and pin configuration.

A low cost Training System demonstrating all basic concepts of SMPS

In depth elucidation of Switching Transformer, which is one of the most important component of SMPS

Variac can be connected with the kit

Fault identification feature enabled

Easy illustration of each block

Designed with considering all safety standards

Provided with a detailed Operating manual

Technical Specifications

Input : 80 to 230 VAC ±10%, 50 / 60 Hz

Outputs :

+12 V DC regulated

: -12 V DC regulated

: +5 V DC regulated

Switching Transformer

Input : 320 V DC switching at 132 KHz

Output : 30 VAC (approx)

Fuse : 500 mA (Slow blow, spare fuse is given with mains socket)

Experiments that can be performed

Study of Switching Transformer

Study of PWM switching device

Study of Optocoupler

Study of Regulation

Study of SMPS with Variac input

Study of various faults and their removal in SMPS circuit

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