

Product Name :

Power Supply Trainer & Lab Training Kit for Vocational Training and Didactic Labs

Product Code :

CON-010-NE

**Description :**

Equipment for Education, Engineering and Vocational Training - Power Supply Trainer & Lab Training Kit - The Power Supply Trainer is a comprehensive training system for the laboratories. It is useful in understanding the various concepts of a DC Power Supply. As we know that power supply is a very basic element of any electronic circuit or appliance. Starting from a mobile charger to a huge Computer system, each needs an efficient Power Supply. It is essential for an engineer to know basic concepts of Electronic Power Supplies. This trainer describes the Transformer, Rectifiers, Filters, Regulators, Role of Bleeder resistor, Load and Line regulation etc. While performing any experiment students have to connect the links by patch cords so it is very helpful for students to learn the inputs and outputs of different sections of any Power Supply circuit. It also consists of a demonstration bridge which is made up of LEDs for visualization of each part of an AC cycle.

Real time appearance of components

Test points are provided in different sections of Power Supply

Demonstration bridge

Designed by considering all the safety standards

Provided with a detailed Operating manual

Low cost yet including many experiments

2 Years Warranty

Technical Specifications

Input : 230 V $\pm 10\%$, 50 Hz

Outputs

Zener diode outputs : 10 V, 5.6 V regulated

Regulators outputs :

+12 V regulated

-12 V regulated
1.8 to 17 V adjustable
Load : 5 K variable with 1 K
fixed resistance.
Bleeder Resistor : 5 K variable with 1 K fixed resistance.
Astable Multivibrator : 1 Hz, 14 Vpp
Transformer : Primary 0 to 220 V Secondary 18-0-18, 6-0-6 (500 mA)
Fuse : 500 mA (slow blow, spare fuse is given in mains socket)
Dimension (mm) : W 365 x D 265 x H 120
Weight : 2 Kg (approx)
Experiments that can be performed
Study of Transformers and its working
Study of Two diode Full Wave Rectifier
Study of Full Wave Bridge Rectifier
Study of Demonstration Bridge
Study of Ripple Factor and to calculate Ripple Factor of Half Wave, Full Wave and Bridge Rectifier
Study of LC and π filter
Study of Bleeder Resistor and its effect on load current
Study of Zener Diode as Regulator
Study of Positive Regulated Supply
Study of Negative Regulated Supply
Study of Adjustable Regulated Supply
Study of Line Regulation
Study of Load Regulation

Naugra Export

Website: www.naugraexport.com, **Email:** sales@naugraexport.com

Address: 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India, **Phone:** +91-0171-2643080, 2601773