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Product Name :

Power Supply Variable

Product Code :

SLE/PHY/272



Science Lab
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Description :

Power Supply Variable (Product Code: SLE/PHY/272) is a continuously variable AC/DC power supply unit for lab demonstrations and advanced-level student experiments in college and senior school physics. A rotary knob sets the output anywhere from 0 to 25 V at a combined current ofup to 8.5 A, and the voltage is shown on a bright green 12.5 mm LED display. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Output	Fine, smooth, continuously variable AC or DC voltage
Output voltage	0 to 25 V, set by rotary knob
Current	8.5 A combined maximum, continuously rated, AC or DC
DC smoothing	Internal 2200 µF capacitor
Display	Bright green 12.5 mm LED digital voltage display; AC or DC reading selected by toggle switch
Rectification	Heavy-duty 40 A Schottky barrier diodes
Transformer	High-performance toroidal transformer; no cooling fan needed
Primary protection	Slow-blow fuse
Transformer protection	Thermal fuse
Secondary protection	High-speed, resettable, microprocessor-controlled trip that distinguishes a real short circuit from a temporary current surge
Dimensions	300 x 115 x 155 mm (W x D x H)
Weight	5.5 kg
Product code	SLE/PHY/272
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Variable Power Supply Used For?

Because the voltage can be wound up smoothly from zero, the unit suits experiments in which a quantity must change in small, even steps: current-voltage graphs for resistors, lamps and diodes, the heating effect of a current, or electromagnets and coils run at a controlled level. The combined 8.5 A rating leaves headroom for low-resistance loads such as heating elements, and the AC or DC output lets one unit serve both rectifier and transformer demonstrations.

Start each experiment with the knob at zero and raise the voltage while watching the display. If the protection trips, clear the fault and reset the unit rather than switching it on and off repeatedly; the microprocessor trip is designed to tell a brief surge, such as a cold lamp filament switching on, fr
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