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Product Name :

High Tension Power Supply

Product Code :

SLE/PHY/128



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Description :

High Tension Power Supply (Product Code: SLE/PHY/128) is a regulated laboratory power supply used to provide the high-tension voltages needed for thermionic experiments, such as a double fine beam tube, in college and senior school physics laboratories. It gives two independent, continuously adjustable outputs of 0-35V and 0-350V at 100mA maximum, plus two 6.3V AC cathode heater outputs, all fully isolated from earth. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
HT outputs	Two independent outputs, 0-35V and 0-350V, continuously adjustable and fully regulated
Maximum current	100mA
Heater outputs	Two auxiliary outputs, 6.3V a.c. 1A, for cathode heaters, protected by resettable fuse
Display	Bright 12.5 mm green LED display indicating HT output
Output sockets	Shrouded sockets suitable for standard 4 mm plugs or shrouded plugs
Isolation	All outputs fully isolated from earth; independent earth terminalprovided
Input	220V-240V, 50/60 Hz (mains supply stated as 230V ±5%, 50Hz)
Protection	Fuse 1A (L); primary protected by slow-blow fuse and thermal trips
Dimensions	208 x 155 x 115 mm (W x H x D); height including handle 187 mm
Applications	Thermionic experiments such as the double fine beam tube; experiments needing a high tension supply, such as ionization current
Product code	SLE/PHY/128
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the High Tension Power Supply Used For?

Thermionic tubes need two things at once: a low heater voltage to warm the cathode so it emits electrons, and a high anode voltage to accelerate those electrons into a visible beam. The High Tension Power Supply provides both from one unit, with its 6.3V AC heater outputs and adjustable 0-350V HT output, which is why it suits fine beam tube work such as the specific charge of the electron experiment.

It also serves other experiments that need a high tension supply, including ionization current studies. Always switch off and turn the voltage controls to zero before changing connections, use shrouded 4 mm leads, and connect the independent earth terminal where the experiment requires it. The voltages involved are hazardous, so the unit should be used under a teacher's supervision.

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