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Product Name :

EHT Power Supply

Product Code :

SLE/PHY/162



Description :

EHT Power Supply (Product Code: SLE/PHY/162) is an extra-high-tension laboratory power supply used to drive electron tubes and electrostatic experiments in college and advanced school physics labs. It gives a fully isolated, continuously variable output of 0–2.5 kV or 0–5 kV DC at a maximum of 2 mA, shown on a bright 12.5 mm green LED display, plus a 6.3 V AC auxiliary output for cathode heaters. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, as part of its range of test and measurement instruments in India.

Specifications

Parameter	Detail
EHT output	Continuously variable, 0–2.5 kV DC or 0–5 kV DC, maximum 2 mA; fully isolated
Current limiting	Electronically limited to 2 mA; outputs also current-limited by 100 k? resistors to avoid larger transient currents
Output stability	Specially wound switching transformer keeps the output voltage stable with time
Secondary outputs	Two, via 25 M? safety resistors (total 50 M? on the 5 kV range);short-circuit current 60 µA for electrostatic experiments
Auxiliary output	6.3 V AC at 1 A for cathode heaters, protected by resettable fuse
Display	Bright 12.5 mm green LED display indicating EHT output
Earthing	Independent earth terminal for earthing any one of the five output sockets
Sockets	Shrouded; suitable for standard 4 mm plugs or shrouded plugs
Input	220–240 V, 50/60 Hz
Mains supply (as listed)	230 V ±5%, 50 Hz
Fuse	315 mA (L)
Dimensions	208 x 155 x 115 mm (W x H x D); height including handle 187 mm
Suitable for	Driving Teltron tubes and electrostatic experiments
Product code	SLE/PHY/162
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the EHT Power Supply Used For?

Electron-beam tubes need a high accelerating voltage on the anode and a low-voltage supply for the cathode heater. This unit provides both: the variable EHT output accelerates the beam, and the 6.3 V AC auxiliary output heats the cathode, so one supply can run deflection and fine-beam experiments such as measuring the specific charge of the electron. The bright LED display lets the cl

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