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**Product Name :**

EHT Power Supply

**Product Code :**

SLE/PHY/162



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## 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 manufactured 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 tubes and electrostatic experiments |
| Features | Interlock/discharge provisions; leads and connectors |
| Product code | SLE/PHY/162 |
| Manufacturer | 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. It is the cl

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