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Product Name :

Spectrum Tube Power Supply

Product Code :

SLE/PHY/301



Science Lab

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Description :

Spectrum Tube Power Supply (Product Code: SLE/PHY/301) is a mains-operated unit used to light gas-filled spectrum tubes so that their emission spectra can be studied in school and college physics laboratories. A common item of physics lab equipment in India for atomic-spectralessons, it takes 26 cm tubes, and its enclosed box holds the tube firmly while stopping studentsfrom touching the electrodes. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Suitable tube length	26 cm
Power input	220 V AC, 50 Hz
Tube mounting	Specially designed box holds the tube firmly
Student protection	Box prevents students from touching the electrodes
Background panel	Black panel behind the tube cuts out distracting ambient light and protects the tube from breakage
Product code	SLE/PHY/301
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Spectrum Tube Power Supply Used For?

When a high voltage is applied across the low-pressure gas in a spectrum tube, the gas glows with a colour typical of that element. Viewed through a spectroscope or diffraction grating, the glow separates into distinct bright lines rather than a continuous band, which gives students direct evidence that atoms emit light only at particular wavelengths. The black panel behind the tube makes this faint glow stand out even when the room lights are on.

Spectrum tubes run at high voltage, so tubes should be changed only by a teacher or technician with the unit switched off and unplugged, and allowed to cool before handling. Check that your mains supply matches the listed 220 V AC at 50 Hz, and that the tubes you plan to use are 26 cm long.

What to Specify When Ordering

- Your mains supply, so we can confirm it matches the unit's 220 V AC, 50 Hz input.
- The length of any spectrum tubes you already hold (the unit is designed for 26 cm tubes).
- Whether you also need spectrum tubes, and which gases.
- The viewing instrument students will use, such as a spectroscope or spectrometer.

Supplier

Jain Scientific Equipments Private Limited, trading as ScienceLab, supplies the Spectrum Tube Powe ers in Ind ts outpu dled unde

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