Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Electromagnetic Power Supply

Product Code :

SLE/PHY/99



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Description :

Electromagnetic Power Supply (Product Code: SLE/PHY/99) is a low-voltage, high-current bench supply used to power electromagnetism kits and Fleming's apparatus in school andcollege physics labs. It gives students access to 1 V a.c. from a 1-0-1 V a.c. output or 2 V d.c. (unsmoothed), tolerates short circuits and has a short-circuit current of 10 A. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Input voltage	230 V ±10%, 50 Hz
Outputs	1-0-1 V a.c. nominal; 2 V d.c. nominal
Student access	1 V a.c. or 2 V d.c.
D.C. output	Rectified from 2 V a.c., unsmoothed
Short circuit	Tolerated; short-circuit current 10 A
Rectifier	40 A Schottky barrier diode
Protection	Transformer protected by thermal fuses and a slow-blow fuse
Dimensions (W x H x D)	208 x 155 x 115 mm
Height including handle	187 mm
Product code	SLE/PHY/99
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Electromagnetic Power Supply Used For?

Electromagnetism practicals such as the force on a conductor need a large current at a very low voltage, which general-purpose school supplies are not built to give. This unit fills that gap: its 1 V a.c. and 2 V d.c. outputs let a low-resistance conductor carry a heavy current, so the forces and fields involved are strong enough to see. It is a specialised power supply unit for the physics lab, and because the d.c. output is unsmoothed it is meant for these demonstrations rather than for sensitive electronics.

The supply tolerates short circuits, and its transformer is guarded by thermal fuses and a slow-blow fuse, which suits student benches where leads are often shorted by mistake. Use leads suited to heavy current and switch off between experiments. At 208 x 155 x 115 mm with a carrying handle, it moves easily from bench to bench.

What to Specify When Ordering

- Number of units required per laboratory.
- The apparatus it will power, such as Fleming's apparatus or an electromagnetism kit, so suitability can be checked.

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