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.

## Sup

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