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Product Name :

Switched Power Supply

Product Code :

SLE/EAM/02



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Description :

Switched Power Supply (Product Code: SLE/EAM/02) is a rugged bench power unit giving 0 to 12V in 2V steps, as either capacitor-smoothed d.c. or a.c., with an output of up to 5A. It is a traditional switched design meant for laboratory work that needs a dependable source of emf, and it serves schools and colleges looking for a general-purpose lab power supply unit in India. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Output voltage (d.c.)	0 to 12V in 2V increments, capacitor smoothed
Output voltage (a.c.)	0 to 12V in 2V increments
Output current	5A max, 4A continuous
Input	Switched, 230/240V a.c. 50Hz
Current protection	Thermal circuit breaker (front-panel thermal trip), manual reset
Voltage limiter	Front-panel Allen key insert; the unit can be locked at any setting
Switch protection	Internal mechanism disconnects the output while the voltage setting is changed, protecting the switch contacts from overload
Case	Robust powder-coated case with integral carrying handle
Storage	Sized so that 4 units can be carried in a single storage tray

Typical Use

Stepped outputs suit practicals where students need repeatable voltages rather than fine adjustment: 2V steps for plotting current against voltage in Ohm’s law work, a low d.c. setting for small motors and electromagnets, or low-voltage a.c. for transformer and induction experiments. Because the output is disconnected while the selector is being moved, changing steps under load does not overload the switch contacts — a real advantage when many hands use the same unit.

Before the class starts, the teacher can use an Allen key through the front panel to lock the unit at the setting the experiment needs. If a circuit draws too much current, the thermal circuit breaker trips; clear the fault and reset it manually from the front panel. Keep continuous loads within 4A, carry units by the integral handle, and store them four to a tray to save bench and cupboard space.

Manufacturer

This power supply is manufactured by Jain Scientific Equipments Private Limited, which trades as ScienceLab from Ambala, Haryana, and provides laboratory equipment to schools, colleges and distributors in India and international markets alongside its own manufactured range. See our company profile for more.

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