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Product Name :

Precision Variable Power Supply

Product Code :

SLE/EAM/03



Description :

Precision Variable Power Supply (Product Code: SLE/EAM/03) is a regulated bench supply giving 0 to 15V d.c., continuously variable and fully smoothed, at up to 8A, plus separate unregulated 6V and 12V a.c. outputs for transformer work. A built-in digital panel meter, a teacher-set voltage limiter and automatic over-current protection make it a practical regulated power supply for school and college physics labs in India. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a manufacturer of test and measurement instruments in India.

Specifications

Parameter	Detail
D.C. output voltage	0 to 15V d.c., continuously variable; fully smoothed and regulated
D.C. output current	8A d.c. max, 6A continuous
A.C. outputs	6V and 12V a.c., unregulated, 1.5A a.c. max; can be used in parallel with the d.c. output
Max ripple at full current	300mV
Max voltage variation with load current	2%
Display	Digital panel meter showing the d.c. output (d.c. only)
Voltage limiter	Front-panel Allen key adjustment
Current protection	Electronic automatic on d.c.; thermal automatic on a.c. Above 8A the d.c. output falls to zero and restores itself once the current is reduced — no resetting required
Input	90–265V a.c. 50/60Hz
Case	Robust powder-coated steel with integral plastic handle; removable mains lead
Mains switch	Illuminated, front panel
Weight	2.2kg
Dimensions	125 x 175 x 230mm; four units fit in a single storage tray
Versions	Same facilities available with continuously variable d.c. (this model) or switched output

Typical Use

Set the required voltage against the built-in digital meter and the supply holds it as the circuit changes, within the stated 2% variation with load current. That keeps readings steady in Ohm’s law, internal resistance, electrolysis and component-characteristic experiments, where a sagging supply would otherwise distort results. The 6V and 12V a.c. outputs can run at the same time as the d.c. output, so transformer investigations and other a.c. work do not need a second unit on the b

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