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

Product Name :

Power Source For Teacher

Product Code :

SCL1427/012



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Description :

Power Source For Teacher (Product Code: SCL1427/012) is a demonstration-table power unit with two separate outputs: an alternating (AC) source on one pair of terminals and a continuous (DC) source on the other pair. The output is adjustable from 2 to 24 V (minimum range) on a graduated control, supplies a maximum current of 5 A, and is protected against short circuits, while a built-in voltmeter and ammeter let the whole class see the voltage and current. Made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a laboratory equipment supplier in India, it is a practical power supply unit for lab demonstrations.

Specifications

Parameter	Detail
Outputs	Alternating (AC) source on two terminals; continuous (DC) sourceon the other two terminals
Voltage adjustment	From 2 to 24 V (minimum), graduated
Maximum current	5 A
Protection	Short-circuit protection
Indication	Voltmeter and ammeter for voltage and current
Mains connection	Plug with conductor for earth connection
Power supply	220 V

Typical Use

From the front bench, a teacher can run the DC terminals into an electrolysis cell, an electromagnet or a resistance wire to show chemical, magnetic and heating effects of current, then switch to the AC terminals for a demonstration transformer or induction experiment. Because the meters are built in, students read the voltage and current straight from the unit while the teacher varies the setting, which makes Ohm's law and power calculations easy to follow in real time.

Good practice is to turn the control to its lowest setting before switching on, make all connections with the unit off, and raise the voltage gradually while watching the ammeter. If the short-circuit protection operates, switch off and check the wiring before trying again. Always plug into an earthed 220 V socket so the earth conductor can do its job.

Manufacturer

The unit is built by Jain Scientific Equipments Private Limited, which trades as ScienceLab from Ambala, Haryana, and produces electrical demonstration apparatus for school and college physics. Further information is available on the ScienceLab company profile.

Related Lab Equipment

Items

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