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Product Name :

Power Factor Load Bank

Product Code :

SLE/EPS/11



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Description :

Power Factor Load Bank (Product Code: SLE/EPS/11) is a free-standing, mobile load unit used to set unity, leading or lagging power factor loads on single and three-phase circuits in power systems laboratories. It combines separate resistive, inductive and capacitive banks across three independent lines, and a voltage-selector switch adapts it to different line voltages. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM, at its own factory in Ambala, India.

Key Details

Parameter	Detail
Construction	Free-standing, mobile unit; worktop on top for additional instruments or recording results
Load banks	Three separate banks: resistive, inductive and capacitive
Power factor	Unity (resistive only), leading or lagging, by choice and combination of load types
Inputs	Three separate inputs: Lines 1, 2 and 3
Circuit types	Single-phase and three-phase
Line connection	Each line independent; connect as a star or delta load
Voltage selection	Voltage-selector switch for different line voltages
Unbalanced loading	Each bank (line) may be set to different values
Product code	SLE/EPS/11
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Power Factor Load Bank Used For?

Most power systems experiments need a load whose behaviour is known in advance, and this unit supplies exactly that: predictable load and power factor characteristics that students set rather than guess. Resistive banks alone give unity power factor; bringing in the inductive banks moves it lagging, while the capacitive banks move it leading.

Because each line is independent and can be set to its own value, the same unit runs balanced and unbalanced load tests in star or delta, or works on a single-phase circuit. Switching capacitance against an inductive load also illustrates the principle of the static VAr compensator used in industrial plants and large factories. The worktop keeps meters and result sheets right beside the controls.

What to Specify When Ordering

- The line voltage(s) in your laboratory, so the voltage-selector setting can be confirmed