PSA60

Portable Inductive Load Bank

A portable inductive load bank for electrical power experiments and general laboratory use

- For use as a single or three-phase load
- Four selectable load values on each bank
- Works as a balanced or unbalanced load in three-phase circuits
- Totally independent banks to allow connection as a star or delta load
- Needs no external supply
- Includes circuit-breakers on each bank for circuit protection
- Coloured, shrouded sockets for increased laboratory safety

Description

The Portable Inductive Load Bank is a robust steel enclosure that contains three banks of switchable inductive loads. Each bank of inductors is electrically separate, so they can connect as a star or delta load for three-phase circuits. Each bank has a set of switches to bring each inductor into circuit. This allows students to create and study the effects of balanced or unbalanced inductive loads. Each bank of inductors includes a thermally operated circuit-breaker to protect the loads.

Students connect the loads to experiment circuits using safety sockets on the enclosure front panel. Students can use this load bank in combination with the other similar load banks to provide variable power and power factor loads. The other load banks are Resistive (PSA50) and Capacitive (PSA55).

The enclosure has ventilation holes and carrying handles for portability.

Note: This load bank only works correctly with 50 Hz or 60 Hz circuits (not both). You must let us know which you need when you place an order.

Standard Features

- Supplied with comprehensive user guide
- Five-year warranty
- Manufactured in accordance with the latest European Union directives

Operating Conditions

Operating environment:
Laboratory environment

Storage temperature range:
–25°C to +55°C (when packed for transport)

Operating temperature range:
+5°C to +40°C

Operating relative humidity range:
80% at temperatures < 31°C decreasing linearly to 50% at 40°C

Sound Levels

Less than 70 dB(A)

Specifications

Nett dimensions: 400 mm x 450 mm x 450 mm

Nett weight: 30 kg

Packed weight: 40 kg

Packed volume: 0.15 m^3

Maximum load (connected as a three-phase delta load):
3 kVAr (reactive power)

Maximum voltage (across each bank):
230 VAC

Load settings:
100%, 75%, 50%, 25% and off

Thermal circuit-breaker (3 off):
5 A r.m.s

- TecQuipment Ltd, Bonsall Street, Long Eaton, Nottingham NG10 2AN, UK
- **T** +44 115 972 2611 • **F** +44 115 973 1520 • **E** info@tecquipment.com • **W** www.tecquipment.com
- An ISO 9001 certified company

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