



PSA50

## PORTABLE RESISTIVE LOAD BANK

A portable resistive 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

# PORTABLE RESISTIVE LOAD BANK

## DESCRIPTION

The Portable Resistive Load Bank is a robust steel enclosure that contains three banks of switchable resistive loads. Each bank of resistors 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 resistor into circuit. This allows students to create and study the effects of balanced or unbalanced resistive loads. Each bank of resistors 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 Capacitive (PSA55) and Inductive (PSA60).

The enclosure has ventilation holes and carrying handles for portability.

**NOTE:** This load bank works with both 50 Hz and 60 Hz circuits.

## 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:

25 kg

### PACKED WEIGHT:

35 kg

### PACKED VOLUME:

0.15 m<sup>3</sup>

### MAXIMUM LOAD (CONNECTED AS A THREE-PHASE DELTA LOAD):

3 kVA (3 kW resistive)

### 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