

100kW Load Bank

Model AC100 for generator testing

100kW three phase

33kW single phase



Capacity

- 415V 3 phase, 50/60Hz: 100kW in 1.25kW steps
- 240V 1 phase 50/60Hz: 33kW in 400W steps

Other AC voltages

Lower AC test voltages can be applied; the maximum power is reduced accordingly. For example:

- 220V 3 phase, 50/60Hz: 28kW in 350W steps
- 110V 1 phase, 50/60Hz: 7 kW in 85W steps

DC voltages

A dual AC/DC model is available at extra cost, having all the capabilities of the standard version plus an additional rating of 0 - 190A (42kW) at 220V DC.

Controls

Integral control panel with hinged weatherproof lid with:

- 1 - 48mm DIN voltmeter 0-500V linear with selector switch
- 1 - 48mm DIN ammeter 0-150A linear with selector switch
- 1 - 48mm DIN frequency meter 45-65Hz
- 7 - 'on/off' pushbuttons (1.25, 2.5, 5, 10, 20, 20, 40kW)
- 7 - indicator lamps, one per section
- 1 - 'on/off' pushbutton for fan start/stop
- 1 - indicator lamp 'fans running'
- 1 - input socket for external 220/240V AC supply, with selector switch
- 1 - emergency stop button

Resistor Elements

Metal sheathed wire elements manufactured from high-grade nickel/chrome resistance wire in magnesium oxide insulated stainless steel tubes and 600V primary insulation.

Cooling

Fan cooled with a single 450mm fan powered from the test load itself or an external supply. The fan is mounted in the base of the load bank and blows vertically through mesh bird screens top and bottom.

Input connectors

Four colour-coded Camlock quick-release input connectors, three phase + neutral. Corresponding female connectors are supplied loose for fitting to customers' own cables. Optionally, made-up input cables can be supplied to order.

Case

The enclosure is sheet steel with an all-welded steel frame, finished in blue powder coat, with instructions and warning labels. The load bank is mounted on braked rubber castors and fitted with push bars at front and rear and with a top mounted cable stowage tray. The load bank can be fork-lifted or slung from its top-mounted lifting eyes.

Dimensions

- 1150 x 700 x 800mm high
- Weight 140kg