

Standard Series

AC500 Load bank



500kW load bank with integrated power meter and manual controls.

Key features

Simple interface

The integrated power meter gives clear readings of the load being applied to the supply. With a USB connection the meter can be connected to a PC to record measurements in real-time. Load steps can be individually applied or pre-set and applied as a single step load using the master load buttons.

Quick setup

Powersafe connectors fitted to the main load terminals make connection to the supply under test simple, fast, and secure. The power connections are located away from the control panel.

Transportable

Transport to any location with integrated forklift points. Move around on-site using heavy duty castors, which are included as standard. Alternatively, the design can be installed in a fixed location, when requested, the heavy-duty castors are replaced with mounting brackets with holes for anchor bolts.

Robust construction

The resistor elements used are from our catalogue of highly robust industrial stamped grid technology using stainless steel. The construction puts the cooling airflow in direct contact with the conductor surface to maximise heat transfer, thus providing the longest possible operating life for the elements.



AC500 Technical Specification

Load Ratings

	3-phase	1-phase
Voltage, V	400	230
Frequency, Hz	50 or 60*	
Load steps, kW	2x 25 1x 50 4x 100	2x 8.33 1x 16.6 4x 33.3

Total load, kW	500	167
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Control and ventilation

General controls	Supply source rotary isolator, fan start/stop and emergency stop buttons.
Load control interface	Master load on/off buttons, 7x discrete load step rotary selector switches Panel mount power meter with LCD display
Cooling	Forced convection, horizontal orientation
Fan(s)	1x 8.5kW Axial fan, 2x cabinet fans
Noise	Approx. 95dB at 1m
Control supply	400V AC 3-phase 50Hz
Source	Internal (supply under test) or external (recommended)

Connection interfaces

Load connections	10x Powerlock plugs (drain); 2 each 3P, N & PE
Ext. control supply	1x EN 60309 5-pin 32A (inlet); 3P, N & PE.
Data downloads	1x USB Type A

Safety

Electrical protection	Over current and short circuit fuse protection Over voltage protection (via control system)
Thermal protection	Thermal trips for load and control compartments Airflow status

Operating environment

Service condition	Outdoor use
Ambient temperature	5°C to 40°C
Ingress protection	IP23 (load), IP54 (controls)

* 60Hz only when controls supplied from external source.

Accessories

Supply cables	Lengths of 5m, 10m, 25m as standard. Terminated each end with Powerlock source sockets and cable lugs.
Storage cover	PVC cover for transport or storage of the unit.

Construction

Resistor elements	Stamped grid
Element material	Stainless steel
Enclosure material	Pre-galvanise steel, painted RAL9002
Manoeuvrability	4x heavy-duty castors 2x pull handles

Weight and dimensions

Drawing reference	171993
Length, mm	1643
Width, mm	1164
Height, mm	1303
Weight, kg	560

Quality assurance

Every unit is subjected to routine testing before despatch, including functional operation, electrical insulation testing.

Documentation

Supplied with operating & maintenance manual and routine test report as standard.

Warranty

The equipment is covered by a 12-month warranty.