

Standard Series

AC500 Load bank



500kW load bank with integrated touchscreen control system providing the ultimate way to verify an electrical supply.

Key features

Advanced interface

The unique Digiload control system provides detailed insight into how the supply under test responds to load changes. The integrated touchscreen interface can be used to manually change the load power level or setup an automated schedule of load steps. Once created, load step sequences can be saved and recalled at any time.

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. With power connected, the 7" intuitive touchscreen interface enables load to be applied rapidly, with real time measurements displayed immediately.

Portable

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

Ratings

	3-phase	1-phase
Voltage, V	400	230
Frequency, Hz	50 or 60	
Load steps, kW	2x 25 1x 50	2x 8.3 1x 16.6
Total capacity, kW	4x 100 500	4x 33.3 166.7

Control and ventilation

Manual controls	Supply source select, Fan on/off, Emergency stop.
Control interface	7" touchscreen display
Cooling	Forced convection, horizontal orientation
Fan(s)	1x AC fan, axial type (95dBA) 2x Cabinet fans
Control supply Source	400V AC 3-phase 50Hz Internal (supply under test) or external supply (recommended)

Connection interfaces

Load connections	10x Powerlock drain sockets (2 each; 3P+N+PE)
Control supply	32A IEC 5-pin panel plug
Data downloads	USB Type-A
Networking/remote	1x RJ45 + 1x 9-pin logic

Safety

Electrical protection	Over current and short circuit fuse protection
Thermal protection	Thermal trip Airflow status detection

Operating environment

Service condition	Outdoor use
Ambient temperature	5°C to 40°C
Ingress protection	IP23 Load enclosure IP54 Controls

Accessories

Remote control	The Digiload remote control provides the ability to control the load bank remotely via a wired connection.
Supply cables	Lengths of 5m, 10m or 25m as standard. Powerlock inline source plugs one end and cable lugs the other
Storage cover	PVC cover for transport or storage of the unit.

Construction

Resistor elements	Stamped grid
Element material	Stainless steel
Enclosure	Galvanised sheet steel, painted RAL9002 grey
Manoeuvrability	4 x heavy duty castors

Weight and dimensions

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

Testing and standards

Every unit is subjected to routine testing before dispatch, including functional operation, electrical insulation testing and visual inspection.

Documentation

Supplied with an operation and maintenance manual and routine test report as standard.

Warranty

The equipment is covered by a 12-month warranty.