

AC1350 Series

AC1350 Load bank



1350kW 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. All test data is recorded within the system and is exported instantly in .csv format when connecting a USB flash drive. 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

Easy access to the generous cable entry compartment via a hinged, padlock-able door main load terminals make connection to the supply under test simple, and secure. The power connections can run under the control panel so that operators can stand comfortably in front of the load bank without tripping over cables. With power connected, the 7" intuitive touchscreen interface enables load to be applied rapidly, with real time measurements displayed immediately.

Modular system

Multiple 1350kW modules can be installed on a common base frame to achieve the desired total power level. The control system can be a shared common on or separate. Transport to any location with integrated fork lift points. An optional base lifting frame can be provided where 2 or more modules are required and provides lifting eyes when crane lifting is preferred.

Robust construction

The resistor elements used are from our catalogue of robust, industrial level stamped grid and flat strip technologies using high grade 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. With decades of service in industry, electricity transmission and distribution systems the element technologies provide the highest level of reliability for our product.

Optional extras

- **Remote Control** – the Digiload remote provides the ability to control an enabled load bank via a wired connection of up to 100m in length. It can also be used as the single point of control for a network of load banks. Housed in a rugged IP66 case (IP54 when open) it includes a 10" touch screen, emergency stop, on/off push button, and 2 x USB ports.
- **Network capability** – when this hardware capability is enabled the load bank can be connected with other load banks via Ethernet to create a network.
- **Base lifting frame** – available where 2 or more 1350kW modules are to be installed in the same location. This frame allows the load bank.



Voltage ratings options

The AC1350 is available in 3 standard versions with the following voltage ratings:

400 415 480

All versions are suitable for frequencies of 50Hz or 60Hz. Other voltages and frequencies are available on request.

Power ratings

	3-phase	1-phase
Frequency, Hz	50 or 60	50 or 60
Resolution, kW	50.0	11.1
Maximum capacity, kW	1350	300

Control and ventilation

Manual controls	System on/off pushbuttons, control supply source rotary selector switch, emergency stop
Control interface	10" touch screen display
Cooling	Forced convection, vertical orientation, horizontal outlet.
Fan(s)	1 x 8.9kW AC fan, axial type
Control supply	3-phase AC, voltage to suit version
Source	Internal (supply under test) or external supply (recommended)

Connection interfaces

Load controls	12 x M12 connections (4 per phase); 4 x PE M12 Stud connection
External control supply	1 x EN 60309 3P+PE 16A
Data downloads	2 x USB Type A
Networking/ remote	2 x RJ45

Safety

Electrical protection	Over current and short circuit fuse protection; Over voltage protection (via control system)
Thermal protection	PT100 monitoring (load and control compartments); PT100 healthy status; Airflow status

Operating environment

Suitable for	Outdoor use
Ambient temperature	-10°C to 50°C
Humidity	95% RH
Ingress protection	IP23 load enclosure IP54 Control cabinet

Construction

Resistor elements	Stamped grid and flat strip
Element material	High grade stainless steel
Optional base platform	Hot dip galvanised steel
Main enclosure	Dual layer; galvanized sheet steel, painted RAL9002 grey
Exhaust air duct	Stainless steel, unpainted 2B finish
Manoeuvrability	2 x fork lift pocket channels

Weight and dimensions

See general arrangement drawing reference 161532	
Length, mm	1610
Width, mm	1130
Height, mm	3175
Weight, kg	2660

Testing and standards

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

Declaration of conformity document reference: 161536



Documentation

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

Training and support

Training can be provided by the manufacturer at our headquarters or on-site, please contact our support team to find out more.

Warranty

The equipment is covered by a 12-month warranty.