

AC300 Series

AC300 Load bank



300kW 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 set up

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 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.

Portable

Transport to any location with integrated fork lift points. Move around on-site using heavy duty castors, which are included as standard. The optional lifting frame provides additional protection to the top of the equipment enclosure and lifting eyes for use when moving the unit with a crane. 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 wire coil and stamped grid technologies 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. With decades of service in industry, electricity transmission and distribution systems these element technologies provide the highest level of reliability for our product.

Optional extras

Remote Control – the Digiload remote provides the ability to control a load bank via a wired connection. It can also be used as the single point of control for a network of load banks. Housed in a rugged IP66 case it includes a 10" touch screen, emergency stop and 2 x USB data ports.

Network capability – when this hardware capability is enabled the load bank can be connected with other load banks via Modbus TCP to create a centrally controlled network.

Protective PVC cover - available for additional protection during transport or storage.

Supply cables - made to order to the desired length and with supply side connection method to suit the intended use.

Anchor bolt mounting plates - available for permanent installation. (no-cost option since supplied instead of heavy duty castors)



Voltage rating options

The AC300 is available in 3 standard versions with the following voltage ratings:

400V 415V 480V

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

Power ratings (all versions)

	3-phase	1-phase
Maximum capacity, kW	300	100
Load step resolution, kW	15.0	5.0

Control and ventilation

Manual controls	System on/off pushbuttons, supply rotary selector switch, emergency stop
Control interface	7" touch screen display
Cooling	Forced convection, horizontal orientation
Fan(s)	1 x 3.7kW fan, axial type
Noise	88dB at 1m
Control supply	3-phase AC, voltage to suit version
Source	Internal (supply under test) or external supply.

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

Connection interfaces

Load connections	4 x Powersafe sockets (3P+ N) 1 x PE M16 Stud connection
External control supply	1 x EN 60309 3P+PE 16A
Data downloads	2 x USB Type A
Networking/Remote	2 x RJ45

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 wire coils
Element material	High grade stainless steel
Base platform	Hot-dip galvanised steel
Main enclosure	Dual layer; galvanized sheet steel, painted RAL9002 grey
Portability	4 x heavy duty castors (2 x braked), fork lift pockets, optional lifting frame includes 4 x lifting eyelets

Weight and dimensions

See general arrangement drawing reference 161479

	Load bank only	with lifting frame
Length, mm	1180	1276
Width, mm	800	896
Height, mm	1353	1503
Weight, kg	240	300

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: 161478



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.