

Standard 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. 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.



AC300 Technical Specification

Load Ratings

| | 3-phase | 1-phase |
|----------------|---|---|
| Voltage, V | 400 | 230 |
| Frequency, Hz | 50 or 60* | |
| Load steps, kW | 1x 5 1x 10 1x 15 1x 20 1x 50 2x 100 300 | 1x 1.67 1x 3.33 1x 5.00 1x 6.67 1x 16.7 2x 33.3 100 |
| Total load, kW | | |

Control and ventilation

| | |
|------------------------|---|
| General controls | Supply source rotary isolator, fan start/stop and emergency stop buttons. |
| Load control interface | 7-inch touchscreen display |
| Cooling | Forced convection, horizontal orientation |
| Fan(s) | 1x 2.7kW Axial fan, 2x cabinet fans |
| Noise | Approx. 88dB at 1m |
| Control supply | 400V AC 3-phase 50Hz |
| Source | Internal (supply under test) or external (recommended) |

Connection interfaces

| | |
|---------------------|--|
| Load connections | 5x Powerlock plugs (drain); 3P, N & PE |
| Ext. control supply | 1x EN 60309 5-pin 16A (inlet); 3P, N & PE. |
| Data downloads | 1x USB Type A |
| Networking/remote | 1x RJ45 (data), 1x 8-pin (remote power and e-stop) |

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) |

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. |
| Remote control | Digiload controller enables remote control of the load bank via a wired connection. |

Construction

| | |
|--------------------|---|
| Resistor elements | Stamped grid and wire coils |
| Element material | Stainless steel |
| Enclosure material | Pre-galvanise steel, painted RAL9002 |
| Manoeuvrability | 4x heavy-duty castors 1x pull handle |

Weight and dimensions

| | |
|-------------------|--------|
| Drawing reference | 163347 |
| Length, mm | 1270 |
| Width, mm | 894 |
| Height, mm | 1370 |
| Weight, kg | 340 |

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.

* 60Hz only when controls supplied from external source.