

AC100 Series

AC100 Load bank

Heavy-duty, robust load bank providing 98.75kW of load capacity, with analogue power metering.



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Key features

Portability

The heavy duty castors and handle make this unit easy to move close to the supply under test. In addition, the narrow width of 670mm makes it possible to pass the unit through door ways.

Easy to use

Easy connection to the supply under test using Powersafe connectors. The power connections are located to the side of the control panel so that operators can stand comfortably in front of the load bank.

Site ready

The rugged internal stainless steel frame provides a solid base on which to manoeuvre the unit on-site.

Meter points

Voltage and current banana plug test points provide an easy way to connect external metering equipment of your choice.

Optional extras

- **Supply cables** - made to order to the desired length and with supply side connection method to suit the intended use
- **Protective PVC cover** - available for additional protection during transport or storage.
- **Anchor bolt mounting plates** - available for fixed location installation.
- **Measurement leads** with plugs for voltage and current feed to external meter.



Ratings

	3 - phase	1-phase
Voltage, V AC	400	230
Frequency, Hz	50	50
Maximum capacity, kW	98.75	32.9
Load step resolution, kW	1.25	0.42

Other voltages and frequencies available on request.

Control and ventilation

Manual controls	16 x on/off push buttons for load sections and control (fan); 1 x Phase selector rotary switch for voltage measurement; 1 x Phase selector rotary switch for current measurement; Emergency stop
Control interface	Manual Control (described above) 7 x Load section lamps 1 x Control fan healthy lamp 1 x External supply source lamp 1 x Analogue Volt meter 1 x Analogue frequency meter 1 x Analogue current meter
Cooling	Forced convection, vertical orientation
Fan(s)	1x AC axial type
Control supply	230V AC 50Hz 1-phase
Source	Internal (supply under test) or external supply (automatic, when connected)

Safety

Electrical protection	Over current and short circuit fuse protection
Thermal protection	Thermostat cut-out

Connection interfaces

Load connections	4 x Powersafe sockets (3P+N) 1 x PE M12 Stud connection
External control supply	1 x C14 socket (L+N+PE)
Measurement points	2 x 4mm banana sockets for voltage measurement 2 x 4mm banana sockets for current measurement

Operating environment

Suitable for	Indoor use only
Ambient temperature	-10°C to 50°C
Humidity	95% RH
Ingress protection	IP20

Construction

Resistor elements	Wire coils (sheathed)
Element material	Stainless steel
Main enclosure	Aluminium, painted RAL 9002 grey
Internal base frame	Stainless steel, un-painted 2B finish
Portability	1 x Push/pull handle 4 x Heavy duty castors

Weight and dimensions

See general arrangement drawing reference 161475

Length, mm	1040
Width, mm	670
Height, mm	940
Weight, kg	123

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: 161476



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.

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