

Document AC100-CPT Version B 2023
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Compact Series

AC100-CPT Load bank



Light weight, compact load bank providing 100kW of load capacity with digital power metering.

Key features

Ultra-portable

The high-power density of this load bank results in a construction that, at only 38kg, can be transported easily. Perfect for conducting load testing in hard-to-reach locations.

Quick setup

Easy connection to the supply under test using Powerlock connectors. The power connections are located away from the control panel so that operators can comfortably operate the load bank without risk of tripping on cables.

Space saving

The compact dimensions mean the load bank can easily be accommodated in a service van whilst leaving plenty of space for the other tools and equipment. In addition, the included case with castors and pull handle further enhances manoeuvrability and provides protection when in storage.

Industrial reliability

The innovative cross-wire coil elements are light and durable, proven in braking applications for locomotives and mining trucks.

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AC100-CPT Technical specification

Ratings

	3-phase	1-phase
Voltage, V	400	230
Frequency, Hz	50 or 60	
	2x 6.25	2x 2.08
	1x 12.5	1x 4.17
	3x 25	3x 8.33
Total capacity, kW	100	33.3

Control and ventilation

Manual controls	Supply source select, System on/off, Master load on/off, Load step rotary selectors, Emergency stop.
Power measurement	Panel meter with display
Cooling	Forced convection, horizontal orientation
Fan(s)	8x DC fans, axial type 2x Cabinet fans
Control supply Source	230V AC 1-phase 50Hz Internal (supply under test) or external supply (recommended)

Connection interfaces

Load connections	4x Powerlock drain sockets (3P+N), M12 PE earth stud
Control supply	C14 socket (L+N+PE)
Data downloads	USB Type-A
Networking/remote	n/a

Safety

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

Operating environment

Service condition	Indoor use
Ambient temperature	5°C to 40°C
Ingress protection	IP21

Accessories

Supply cables	Lengths of 5m, 10m or 25m as standard. Powerlock inline source plugs one end and cable lugs the other.
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Data cable

USB data cable to connect
power meter to a PC.

Construction

Resistor elements	Wire wound coils
Element material	Stainless steel

Enclosure	Aluminium and galvanized sheet steel, painted RAL9002 grey
Manoeuvrability	1 x handle. 1 x travel case with wheels

Weight and dimensions

	Unit only	With case
Length, mm	579	725
Width, mm	313	416
Height, mm	718	856
Weight, kg	30	48

Drawing reference	172232
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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
172406.

Documentation

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

Warranty

The equipment is covered by a 12-month warranty.