

200kW Data Centre Loadbank

Built for Integrated
Systems Testing



Simulate full
load operation,
power outages,
and cooling
system failures



Verify PDU
operational
readiness
during
commissioning



Closely mimic
server heat
generation to
test cooling
systems



Control up to
240 units from
one controller

- Small footprint, stackable for easy storage
- AC loadbank resistive-only
- Voltage range: 400V or 415V
- 50/60 Hz Operating frequency range
- 3 Phase

- Forklift pockets for lifting
- Sheet steel construction with IP55 rating
- Low Delta T
- Low noise
- Internal or external auxiliary supply operation

Datacentre 200kW Stackable Loadbank

Description	
Model	Stackable Transportable
Country of Origin	United Kingdom
Max Capacity - Packaged Loadbank	200kW
Voltage Ranges - (Continuous Operation at Specified)	400V
Operating Frequency Range	50/60Hz
Test Supply Phases	3ph
Load Connections	Powersafe Connectors
Wires (Star Connection)	3
Load-Step Resolution @ Design Voltage	1kW
Voltage Tolerance (Short Term Operation)	+5%
Load Element Tolerance	+/-5%
Elements	80/20 nickel chrome resistance wire
Insulation Test	500V
Auxiliary Supply Voltage	220V - 240V
Auxiliary Supply Current	10A
Operating Frequency Range	50/60Hz
Phases	1ph
Electrical Protection	Thermal Emergency Cut Out Fan Overload
Control Voltage	Over Current Protection
Cooling Method	Emergency Stop
Air-Flow / Temperature Rise (Approx.)	Selectable - Test or Auxiliary Forced Air Cooling (Horizontal)
Load Switching Category	6435 m³per hour / <100°C at outlet AC-1 Resistive
Load Switching Contactor Type	3 Pole AC Contactors
Rated Maximum Ambient Temperature Operation	+50°C / +122°F
Rated Minimum Ambient Temperature Operation	-20°C / -4°F
Rated Maximum Relative Humidity	9500% RH
Altitude Rating	<500m [m.a.s.l.]
Noise level (Approx. @ 1m Free Field)	83dBA @ 50Hz
Enclosure	
Material	Sheet Steel
Finish	RAL9002 Grey White
Control Chamber IP Rating	IP55
Lifting	Fork Lift Pockets
Protection Frame	Heavy Duty Rubber Bumper Pack
Enclosure Dimensions	
Length (Approx.)	mm 1183
Width (Approx.)	mm 902
Height (Approx.)	mm 983
Total Weight (Approx.)	kg 275
Load Bank Control Systems	
Control	VCS LC10
Optional Extras:	Extendable
- Control Extension Cable	10m
- Control Extension Cable	20m

200kW AC Stackable - August 24 (Changes to specification may vary without notice)

Crestchic VCS Control System for 200kW Loadbank



VCS v2.0.0 next generation Loadbank Control Software provides flexible control of individual, multiple, or clustered loadbanks. With sub-millisecond data exchange for real-time management, operators can use the software to scan for loadbanks on a network, apply load, and remove load while monitoring their performance and statistics.

The VCS is scalable, enabling precise testing of individual loadbanks or management of up to 240 loadbanks.

Clustered loadbank control enables high-volume, synchronised testing - ideal for heat load testing in data centres.

Liquid and air cooled loadbank support, advanced compliance reporting and cloud ready architecture.

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