

Document Radiator mounted load bank range
Reference No. 174193
Revision 1
Date 08-DEC-2023
Author AK



Standard Series

Radiator mounted load bank range



Load banks for integration with generator radiator cooling systems

Key features

Integrated load

Integrating a load into the generator package enables load tests to be run frequently and easily without the need for an external load bank. This is particularly valuable where generators are installed in locations with limited accessibility.

Ballast load

A radiator mounted load provides the possibility to have a ballast load on the generator when running with a light application load for long periods of time. Increasing the load ensures efficient combustion and operation of the generator, preventing wet stacking issues.

Load step control

Radiator mounted load banks are offered with 2 load steps, each 50% of the total power rating. This provides an incremented step for the ballast or test load possible. As an optional extra, load section contactors can be installed in the connection compartment for remote control of the load.

Robust construction

The resistor elements used are from our catalogue of highly robust, industrial expanded mesh 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.

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Technical specifications

Ratings

Volage, V 400V 3-phase/3-wire
 Frequency, f 50/60Hz

Control and ventilation

Option 1 Direct connection to load (no controls)

Option 2 Load section contactors (with coils wired to terminals for external integration).

Control supply 230V AC 1-ph 50Hz (only required for option 2).

Cooling Horizontal orientation, external forced air required.

Air inlet temperature 80°C maximum (for standard designs)

Flowrate 5m/s minimum

Connection interface

Load 3x Copper palms with through connections holes
 Control supply DIN rail mount 2.5mm² terminals

Construction

Resistor elements Expanded mesh
 Element material Stainless steel
 Enclosure material Pre-galvanised sheet steel or stainless-steel grade 304L
 Enclosure finish Natural, un-painted.

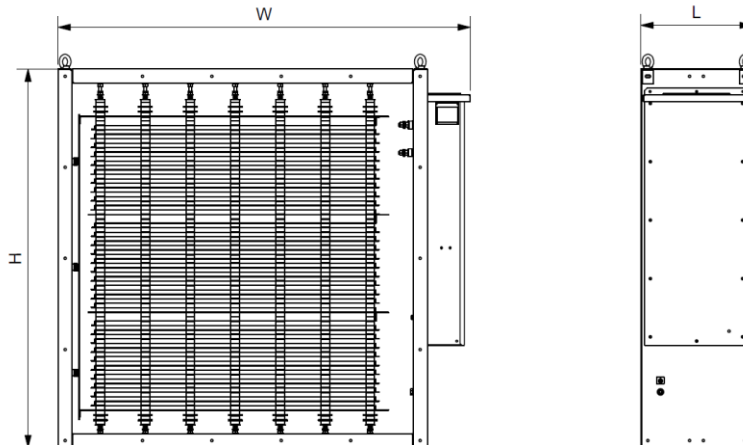
Operating environment

Service Indoor (generator cooling duct/canopy)
 Ambient temperature 5°C to 40°C
 Ingress protection IP00 load enclosure
 IP54 connection box

Quality assurance

Testing Every unit is subjected to routine testing before dispatch.
 Documentation Supplied with routine test report.
 Warranty The equipment is covered by a 12-month warranty.

Dimensions



Power Rating (kW)	Load steps	Equipment drawing	Height, H (mm)	Width, W (mm)	Length, L (mm)
10 to 60	2x 50% of total	165328	670	830	230
70 to 100		168507	1250	1160	400
110 to 130		166548	1360	1160	400
140 to 160		166340	1360	1322	400
170 to 230		166397	1360	1484	400
240 to 300		166287	1260	1484	498