

500Kw Load Banks



Load banks are essential for maintenance to ensure your generator performs to required engine wattage. Normally a generator runs at a level less than its rated output; therefore a load bank test provides an artificial load to ensure the generator is running at the correct wattage if needed.

Load banks have a wide variety of applications such as: Generator servicing, generating set exercising and / or testing, keeping generating set above minimum loading (load shedding), battery discharge and UPS systems exercising, and /or testing to reduce 'Wet Stacking' problems and ground power testing.

Resistive Load Bank 500Kw 415/240V

Operation Condition

- Ambient Temperature: -10°C -50°C.
- Ambient humidity: 90% no-condensing
- Altitude: 5,000 feet above sea level.
- Continuous duty cycle without limitations.

Construction

- Galvanized steel is utilized for superior heat deflection and corrosion protection.
- Maintenance doors allow easy access to control panel, switchgear and power connections
- Stainless steel mesh screens of main air inlet and outlet to protect against hazardous parts.
- Top four lifting points and bottom forklift holes are both available.

Protection

- Emergency stop gives full isolation of the fan and control supply.
- The fan motor is fully protected with breaker and a thermal overload.
- Over temperature detector is fitted to protect against overheating in the resistive duct, switchgear panel.
- Cooling fan fault detector is used to monitor fan status and air flow direction.
- Each step load and its associated contactor are protected by a mini breaker.

Test

- Before shipment, all load banks have been strictly inspected and load tested.

Elements

- Stainless steel tube resistor with wind cooling which are insulated with heavy-duty, high temperature ceramic insulators.

Function

• 7" HMI Instruments Display

- Volts, Hz, Amps, Kw, Kva, Pf, kWh, kVar, Temperature
- Manual switching controls for each load step and lamp indicators.
- PLC logic control
- Remote stop function is used to immediately shed load. In situations where the generator is used as a simulated load for standby generators if mains' power failure occurs, the load bank can remote stop and reverse the capacity of genset for back up power supply
- Audible and visual alarm for over temperature and cooling fan fault.
- Fault reset and lamp test function.
- **Auto Load Share Mode**
Reading the CT signal from the generator to automatically increase and decrease the load step of the load bank to keep generator running a safe load range

Installation

- The load bank is mounted on to galvanised mounting rails.
- Trailer mounting (optional).

Warranty

- All equipment carries full manufacturers' 3 year warranty

Documentation

- Operation & maintenance manuals provided
- Wiring diagrams

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Specifications

Model	BDM-500KW			Sound level	dB(A)	78
Capacity	kW	500		Dimensions	Length(mm)	2410
Frequency	Hz	50			Width(mm)	1760
Voltage	V	415/240			Height(mm)	1950
Max.current	A	725		Weight	kg	1290
Phase		3		Airflow	m³/s	8.5
Power Factor		1		Terminals per phase		2*M12
Manual Load Step Decade (kW)		1,2,2,5,10,10,20,50,100,100,100,100 (fixed)				

Materials and specifications are subject to change without notice.

