Load Bank Datasheet

LB RANGE

JLB30

What is a Load Bank JLB30

What is a Load Bank-A load bank is a piece of electrical testing equipment used to apply an artificial load to a generator. It mimics the real-world power demands of a building or facility, allowing operators to safely evaluate, verify, and maintain the generator's performance without risking an outage on a live system.
Load banks aren't only used with generators.

They also test UPS systems, batteries, and general power sources

How It Works

- **Simulation**: The load bank places a load on the generator, creating an adjustable and controlled demand.
- **Dissipation**: It converts the electrical energy into heat using heavy-duty resistive elements and safely removes it with built-in cooling fans.
- **Measurement**: It allows technicians to monitor critical metrics like voltage, frequency, amperage, and engine temperature under loaded conditions.

Why They Are Used

- **Preventing "Wet Stacking" or "Glazing of the Bores":** Standby generators (especially diesel ones) that run without a load or only idle for long periods experience incomplete fuel combustion. This leads to unburned fuel and carbon buildup in the engine and exhaust system. Load banks "exercise" the generator, forcing it to reach optimal operating temperatures to burn off the residue. Bore glazing is when cylinder walls become polished/glazed, preventing the piston rings from seating and controlling oil — also caused by light loading and low temperatures. Both stem from the same root cause (running under-loaded)
- **System Commissioning**: They are used to test brand-new generator installations to ensure they can output their rated capacity before connecting to critical building infrastructure.
- **Routine Maintenance**: Regular load bank testing ensures that emergency backup generators (e.g., those in hospitals or data centres) will not fail when they are needed most during a power outage.

Jubilee Energy load banks are high-quality units, made from stainless steel and powder-coated for resilience. Designed and built for harsh Australian environments, they're simple to use and easy to read. Contact us now for a quote on a standard off-the-shelf unit, or a bespoke unit designed to your specific needs and requirements.

Technical Data

JLB30

Load Bank Brand	Phase	Type	Jubilee Model
Jubilee Energy	Three	Enclosed	JLB30

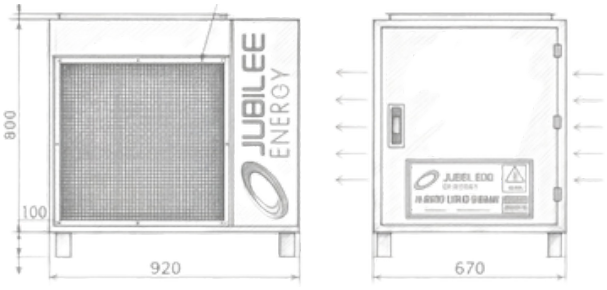
Model	JLB-30		Sound level	dB(A)	80.9
Capacity	kW	30	Dimensions	Length(mm)	920
Frequency	Hz	50		Width(mm)	670
Voltage	V	400		Height(mm)	800
Max.current	A	42	Weight	kg	120
Phase		3	Airflow	m3/s	2.4
Power Factor		1	Terminals per phase		M12
Manual Load Step Decade (Kw)	2 x 5, 2 x 10				

Scope of Supply

- Stainless Steel Enclosure
- Painted In Marine White Powder Coat
- Stainless Steel Finned Elements
- Fully Guarded Cooling Fan
- Heavy Duty Rubber Anti-Vibration Mounts
- 240v Control Circuits
- Full Automatic Control From The Onboard PLC (optional)
- Main Line Circuit Breaker
- Load Steps Giving Increments Of 5kw
- Plc Continually Monitors The Load Optimising The Load pplication
- Over Temp And Fan Fail Protection
- Emergency Stop Buttons
- Sound Attenuated Canopy With Lift / Fork Slots
- Factory Test Certificate And Pre-Delivery Service
- Operation Manual
- Emergency Stop
- External Supply for Controls and Cooling Fan
- Ambient Temperature: -10 C +50 C
- Ambient humidity:90% no-condensing
- Altitude: 5,000feet above sea level
- Continuous duty cycle without limitations

Images are for illustrative purposes only and may vary.

Typical Enclosed Generator Sound Pressure Level in Free Field Conditions			
dB(A) @ 1m	80.9	dB(A) @ 7m	68.9



Weights and Dimensions		
Length	(L)	920 mm
Width	(W)	670 mm
Height	(H)	800 mm
Dry Weight	**120 kg**	

Other Options

JLB30

Generators	Description
	Jubilee Energy designs and engineers tailored power generation systems built to withstand the most demanding operational environments. Power your operations with confidence. From continuous natural gas and high-capacity three-phase diesel generators to cutting-edge hybrid systems, we design and deliver resilient energy infrastructure tailored for demanding commercial and industrial environments. For more information, contact our sales department: Sales@JubileeEnergy.com

Automatic Transfer Switch	Description
	Jubilee Transfer Switches combine reliability and flexibility in a small, economical package for transferring loads between a utility and a generator set, or between two generators. Jubilee Transfer Switches and the control mechanisms are mounted in a key-locking enclosure. Enclosures meet IEC 60947-6-1 standard. Our 63-630 Amp switches are front-connected. The microprocessor control monitors the utility and the standby generator power. When utility power fails, or is unsatisfactory, the control starts the generator. When stable utility power returns, the switch automatically transfers the load back to the utility. A variety of Transfer Switches are available to suit multiple applications.

Services	Description
	At Jubilee Energy, we provide more than just equipment. Our expert team delivers specialized consultation, custom system engineering, and hands-on technical training to ensure your infrastructure achieves maximum efficiency and zero downtime. Jubilee Energy bridges the gap between complex electrical demands and seamless onsite deployment, offering specialized generator hire, automated system integration, and rapid-response maintenance programs. Whatever your scale, we keep your business powered uninterrupted. For more information, contact our service department: Service@JubileeEnergy.com