



LOAD BANKS

60 HERTZ BUYER'S GUIDE



ISO 9001 CERTIFIED
www.load-bank.com

Avtron Loadbank, Inc.

Since 1953, Avtron has been a leader in the design and manufacture of high quality and reliable products intended for very demanding industrial applications. Avtron's products include:

- Resistive and Reactive Load Banks
- Industrial Resistors
- Aircraft Electrical Test Systems
- Digital Instrumentation Systems
- Digital Control Systems

Avtron is 100% committed to maintaining the high standards that you have every right to expect – in Design, Manufacturing, and Product Support.

Decades of extensive experience provide Avtron with capabilities for satisfying any load bank design requirement.

Quality System Certified to ISO 9001

Avtron's Quality System is certified to meet ISO 9001 standards. This means that Avtron products consistently meet the highest quality standards.

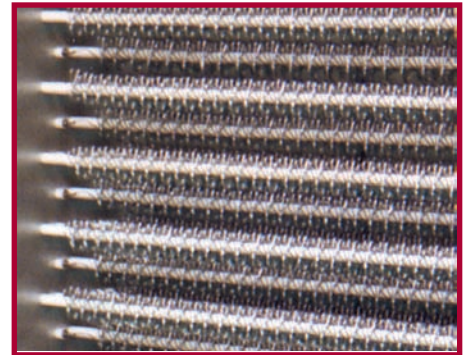
Meet NFPA Requirements

The National Fire Protection Association (NFPA) has issued testing standards for emergency and standby power systems including NFPA 70, NFPA 99, and NFPA 110. These standards provide guidelines for installation acceptance of power systems, periodic testing and maintenance, and specific testing requirements of systems used to support health care facilities. All these standards require partial or full load testing of backup power systems using loading equipment. Avtron load banks provide the necessary loading capabilities for testing emergency and standby power equipment to meet NFPA requirements.

Avtron Load Banks

Load Banks are devices designed to provide electrical loads for testing power sources such as generators and Uninterruptible Power Supplies (UPS). Load banks are also used to reduce "wet stacking" problems in diesel engines of backup generating systems.

Most Avtron resistive load banks feature Helidyne™ resistive elements. These Avtron designed and manufactured elements are made of a corrosion resistant chromium alloy and are fully supported across their entire length on stainless steel support rods with segmented ceramic insulators. Elements are carefully selected to operate at low temperatures to provide extended, reliable performance, eliminating the need for a "cool down" period after load bank operation.



Avtron's Helidyne™ elements are fully supported and operate at low temperatures for longer life.

Applications

Load banks can be used in a wide variety of applications, such as:

- Factory testing of engine generator sets
- To reduce "wet stacking" problems
- Periodic exercising of stand-by engine generator sets
- UPS system testing
- Battery system testing
- Ground power testing
- Load optimization in prime power applications
- Factory testing of turbines

Avtron manufactures both the load banks and the auxiliary equipment necessary to handle these and other applications. Contact your Avtron sales representative for complete support in choosing the best load bank system for your requirements.

Improve Reliability of Generator Set

Industry trade organizations and manufacturers both agree that a well planned preventive maintenance program is vital to the reliable operation of a standby generator. Load Banks are an essential part of such a program. Load Banks provide a practical means to test the system without interruption to the critical loads.

The primary cause of diesel engine failure is "wet-stacking" ("wet" unburned fuel accumulating in the engine "stack"). It is caused by under-loading of the generator. Diesel engines that are lightly loaded, or allowed to idle for long periods, never reach their recommended operating temperature. Over time, unburned fuel coats the combustion chamber, reducing engine rating, efficiency, and life span. A preventive maintenance plan that includes load testing of a diesel generator set, will reduce the harmful effects of "wet-stacking" and increase engine life.

Advantages of Aluminized Steel Construction

Load Banks convert electrical energy into heat. The majority of this heat is dissipated away from the device by the cooling fan. However, the enclosure itself absorbs a portion of the generated heat. As such, these products must be constructed out of a material that can withstand this thermal environment. Avtron Load Bank enclosures are constructed from Aluminized Steel, which offers superior heat and corrosion protection over the more commonly used Galvanized Steel.

