



The Avtron Model 2500 are resistive, AC load banks designed for operation indoors when up to 100 kW of load is required.

## LOAD BANK RATINGS

Standard capacity ratings of:

- 100 kW

Standard load step resolution of 12.5 kW.

Select from standard three phase voltage ratings of:

- 240/480-50/60Hz
- 300/600-50/60Hz

Please consult factory for non-standard ratings.

## Fan and Control Power

The load bank requires a 120V, single phase 60Hz, 12 amp source for operation of control circuit. A line cord for control power is provided with the load bank.

The fan motor is part of control circuit and receives power from the line cord.

If supply frequency is different from load bank rating, please contact factory prior to operation.

## Cooling System

Approximately 2,112 CFM cooling is provided by eight (8) integral cooling fans.

## Operator Controls

Digital monitoring via full digital metering (V, A, Hz, kW) with automated data acquisition and real time data logging, software IrDA converter supplied.

Local control panel including: Main Power On/Off switch, Power ON Indicator, Over-temperature Indicator, Load Voltage Selector switch for operation at 240 or 480 volts, and Master Load On/Off switch. Load selection is provided by individual industrial lever-type toggle switches.

## Construction

The 2500 is constructed using heavy gauge aluminized steel per ASTM A463. It is designed for continuous indoor operation. The load bank comes standard with a rugged transport case and 10' load cable set. The transport case features fixed wheels and telescoping handle.

All load bank exterior fasteners are stainless steel. The load step relays, fuses, and fan/control relays are located in the main enclosure. Quick disconnect receptacles are located on the front of the load bank.

## Finish

The 2500 has a high quality baked polyester powder coated finish with a film thickness of 2.8 +/- 0.4 mils per coat. The standard color is gray (ANSI 61).

## Two Year Warranty Included

The equipment is covered by an industry exclusive 24-month parts and labor warranty.

# Model 2500 Specifications

## Resistor Elements

Industrial grade resistor wire elements, wound and supported on a mica base. Resistive elements are positioned within the cooling airstream for optimal performance. Changes in resistance due to temperature are minimized by maintaining conservative watt densities.

The overall load tolerance of the 2500 load bank is -0, +5%. This ensures that advertised kW is delivered at rated voltage.

The elements are continuously rated at the specific voltage. Tests at lower voltages, with a corresponding reduction in overall rating, may be carried out.

## Safety Features

The load bank contains eight (8) fans which provide the necessary cooling air for the load elements. An additional fan is provided to cool the control panel.

Exhaust temperature sensors are provided to monitor the flow of cooling air. These switches are electrically interlocked with the load application. If one or more of the fans are not working properly, the load steps are disabled.

The load bank also contains fuses for short circuit protection. The control/fan circuit is protected with a 12 amp fuse, while the load circuit is protected with branch fusing.

The exterior of the load bank has appropriate warning and caution statements on access panels.

Internal access is restricted by screw on exterior panels.

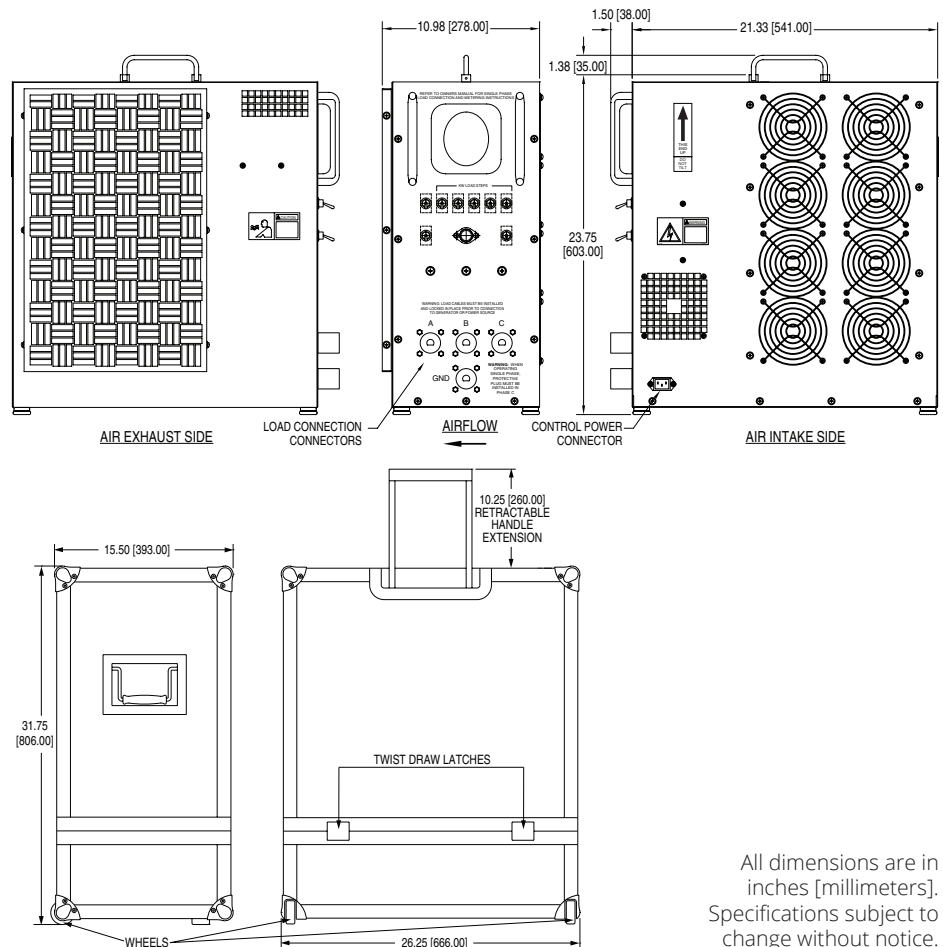
Air to cool the load elements enters the screened intakes located on one side of the load bank. The air passes over the resistive elements and is then discharged through the screened opening at the other side of the load bank.

The air intake on the 2500 is designed to prevent objects greater than 0.50" diameter from being ingested into the unit.

Side air discharge can be directed away from personnel.

## Ambient Temperature

The 2500 load bank is designed for continuous duty cycle with no limitations. The ambient temperatures range is -20°F to 120°F (-28°C to 50°C).



All dimensions are in inches [millimeters]. Specifications subject to change without notice.

## Environment

The 2500 is self-contained portable load bank designed for operation and storage indoors.

## Power Terminals

Input connections are quick connect style receptacles mounted on the front of the load bank.

## Optional Accessories

- 20' Load Cable Set

## Documentation - Operating Manual

A comprehensive operator's manual is supplied electronically via a USB drive.

Sections include: Safety, Installation, Operation, Maintenance, and Troubleshooting.

## Testing and Standards

Avtron load banks comply with NEMA, NEC, and ANSI standards. Quality control system is certified to ISO9001 standards.

## Weight and Dimensions

Load Bank Only Dimensions (approx. in/mm)			Weight (approx. lb/kg)
Length	Width	Height	
22.8/579	11/278	25.1/638	78/35.5
Load Bank with Case & Cables Dimensions (approx. in/mm)			Weight (approx. lb/kg)
Length	Width	Height	
26.5/666	15.5/393	31.75/806	140/63.5