



The 5850 is a resistive, purpose-built, trailer-ready load bank that is engineered with serviceability in mind.

- 4000kW Capacity
- Transport without commercial driver's licence
- Easily serviceable components
- Sigma 2 or RxMS Controls compatible

LOAD BANK RATINGS

Standard capacity ratings

- 4000 kW

Standard load step resolution of 50kW.

Standard three phase voltage ratings

- 480V-60Hz

Please consult factory for non-standard ratings.

Duty Cycle

Continuous Duty with no limitations

Blower Motor Control

Blower Requirements: Internal / External
480V, 3 phase, 60 Hz

Connection: Cam Lock (3 Phase + 1
Ground)

Control Power

Internal or External 120VAC control power available via an integral control power transformer wired to the blower motor circuit or external L5-15 120VAC plug.

Cooling System

Approximately 20,000 CFM cooling (per individual vertical frame) is provided by integral TEFC or TEAO motor which is direct coupled to the cooling fan blade.

The fan motor is fully protected with fuses, motor starter contactor, and over-load relay.

Operator Controls

The 5850 is available with either SIGMA 2 or RxMS Controls.

SIGMA 2 allows for networking and control via remote handheld controller or PC with SIGMA Unity software.

RxMS allows for networking and control via local toggles or PC/tablet with LBView software.

See control data sheets for more information.

Construction

The 5850 is constructed using heavy gauge aluminized steel per ASTM A463. It is designed for continuous outdoor weatherproof operation. Full length fork lift channels on all sides are provided in the base for lifting.

All exterior fasteners are stainless steel. The main input bus, load step relays, fuses, and blower/control relays are located in the main enclosure.

Electrical Connections

Load Connections: 16 cam locks per phase ; Rated for 400A Each

Ground Connections: 4 cam locks

External Blower Power: 480V, 3 phase + 1 Ground cam locks

External Control Power: L5-15 120VAC plug

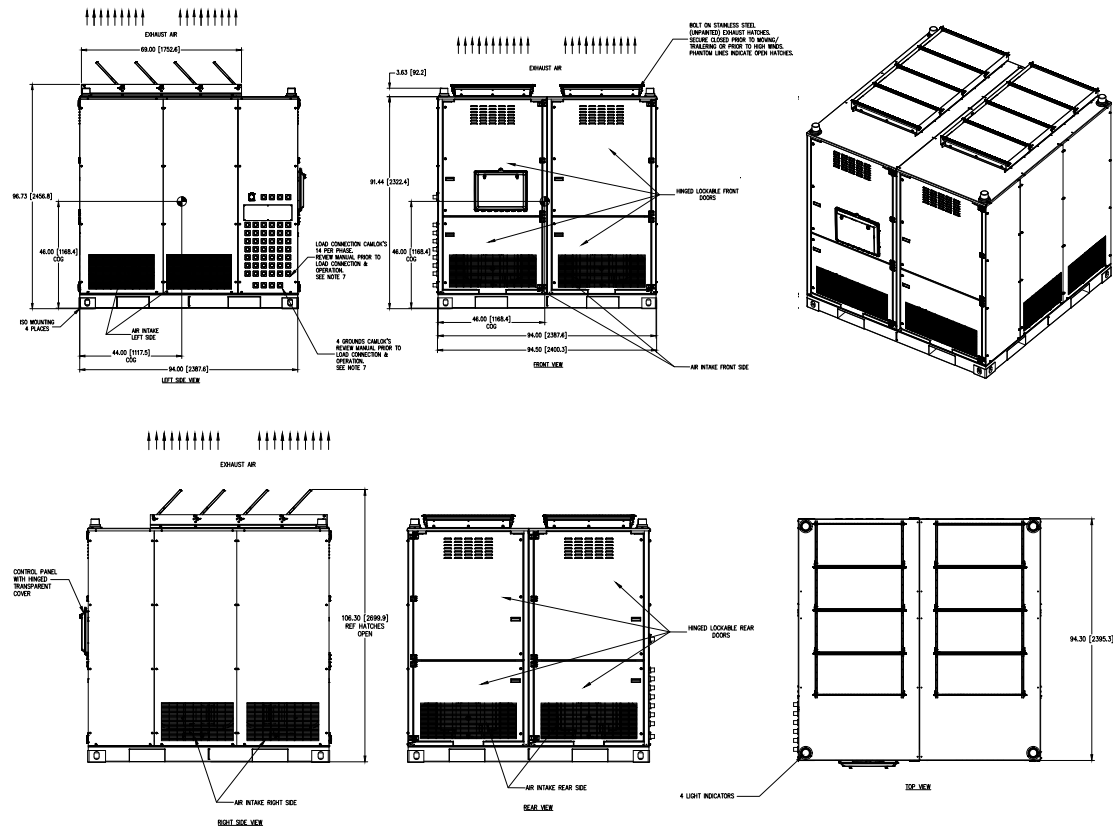
Finish

The 5850 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 5850 Specifications



Preliminary Outline Drawing. Load bank shown not mounted on optional trailer.

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

Resistor Elements

Helically wound chromium alloy Heli-dyne elements. Elements are designed to operate at approximately 1/2 of their maximum continuous wire rating for long life and reliability. The overall load tolerance is -0, +5% to ensure advertised kW is delivered at rated voltage. Derating required for operation at lower than rated voltage.

Safety Features

All necessary safeties such as: differential pressure switch, over temperature switch, fuses and overloads are included to ensure safe, reliable operation.

Ambient Temperature

The 5850 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).

Trailer & Mounting

ISO block corners provided for trailer mounting.

Optional Accessories

- RxMS Remote Kit
- Trailers
- Cable Reels (Manual or Electric)
- Cable Security Covers
- Lockable Storage Box
- Solar Battery Charger
- SIGMA 2 Digital Controls
- 2 5/16 Ball Hitch (3" Pintle Standard)
- Custom Powder Coat Paint Finish

Testing and Standards

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

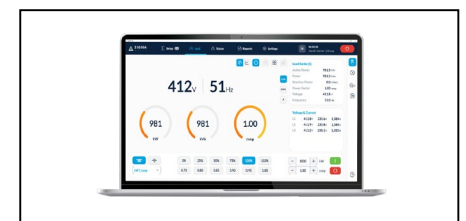
Weight and Dimensions

Load Bank System Dimensions (approx. in/mm)			Weight (approx. lb/kg)
Length	Width	Height	
96 3/8" / 2448	100/2540	96/2439	7500 / 3402

Support

↓ RxMS LB-View software can be downloaded free of charge through the following [link](#).

↓ Find out more about SIGMA 2 control options through the following [link](#).



Optional SIGMA Unity Software..