



Avtron 5000 SERIES Trailer-Mounted Load Banks



avtronpower.com

AVTRON
POWER SOLUTIONS

Avtron 5000 SERIES Load Banks

Avtron 5000 SERIES load banks are outdoor-rated, trailer-mounted, resistive units for testing power supplies at unity power factor.

Featuring rugged, heavy-duty construction, 5000 SERIES load banks are designed for continuous use and are built to withstand the rigors of varying climatic conditions.

Models from 200 to 3000kW are available in a wide range of voltages. Local manual controls are standard. Both the SIGMA control and other digital controls are available when a networking, Modbus, or building management interface is required. 5000 SERIES load banks are suited for mission-critical, data center, equipment rental, service and generator maintenance, factory testing, and renewable energy applications.



Product Knowledge

[Load Bank Overview Brochure](#)

- Resistive Only
- Capacities from 200 to 3000kW
- Local Manual, SIGMA control
- Trailer-Ready or Trailer-Mounted Options

5000 SERIES Features

5000 SERIES load banks present unique features to provide reliable and accurate load testing for any application.



- 1

Quick Connect Cable Receptacles allows for quick and safe load connection on some models
- 2

Main Load Bus and Control Area are bolted on and hinged for accessing load contactors, branch fusing, and input bus bars.
- 3

Branch Circuit Fuse Protection limits fault current and protects components during phase-to-phase or phase-to-ground shorts.
- 4

Hinged Panel provides main load bus access.
- 5

Local Control Monitoring Panel housed in a rugged enclosure with hinged door, system control, and digital monitoring provide straight-forward, logical operation.
- 6

Aluminized Steel Construction with Powder Coat Paint Finish provides superior heat deflection and corrosion protection.
- 7

Louvered hot air stream exhaust.
- 8

Adjustable Louvers for intake and exhaust open and close with a simple swing handle. They lock securely in open and closed positions with a locking pin.
- 9

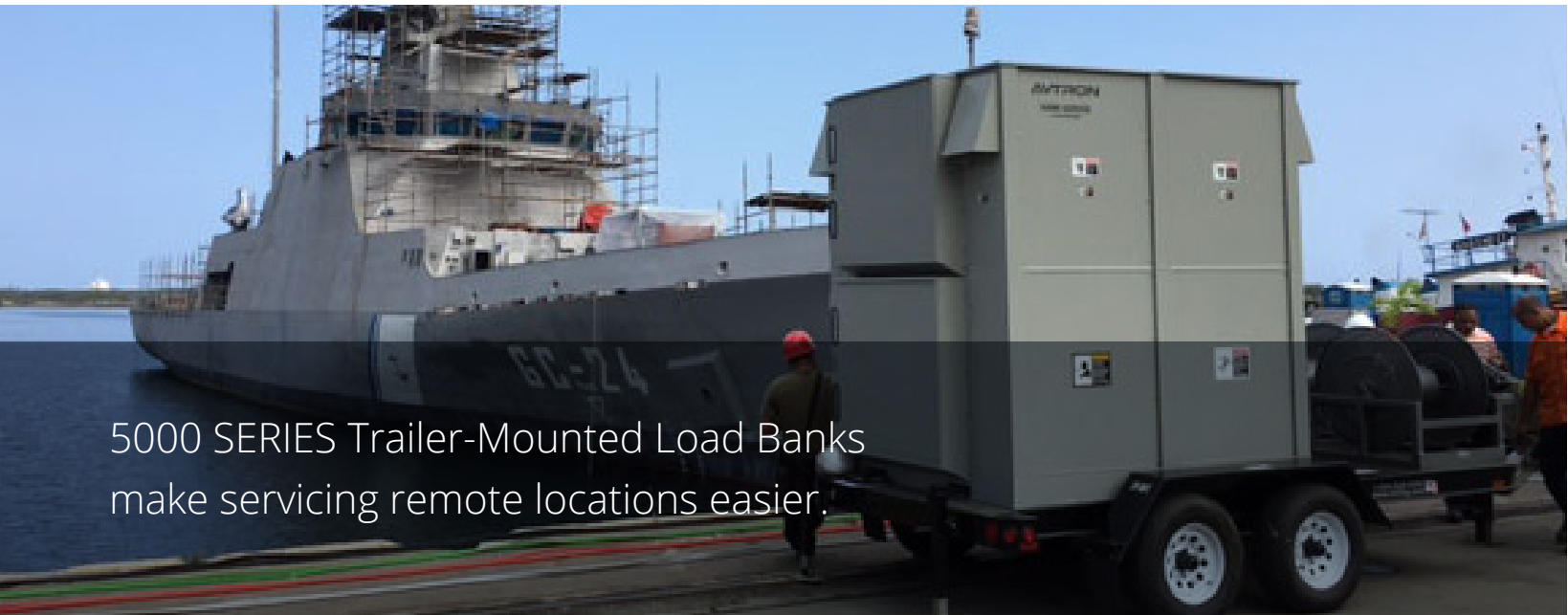
Cool Air Intake Louver allows cool air intake and prevents damage from foreign objects.
- 10

Integral Blower Motor and Fan Blades provide proper cooling airflow and motor circuit protection.
- 11

Control Enclosure Vents allow proper ventilation in the control area.
- 12

Optional Motorized Cable Reels and a wide variety of cable storage options are available.
- 13

Optional DOT-Legal Trailer provides proper tongue weight.



5000 SERIES Trailer-Mounted Load Banks make servicing remote locations easier.

SIGMA Control

SIGMA is the embedded multifunction control platform for Avtron load banks. It is flexible, feature-rich, and cost-effective. The platform offers intelligent, accurate, and user-friendly control. This provides facilities with best-in-class test and data acquisition capabilities, including:

- ability to network multiple load banks
- control for one or many load banks from a computer or a hand-held device
- communication with building management, Modbus, or SCADA systems for unified site control

Avtron SIGMA solutions are offered in two forms:

SIGMA LT



A straightforward load bank control system for load banks. It provides essential load test capabilities via digital toggle switches or a hand-held control device.

SIGMA 2



A sophisticated load bank control solution that offers advanced instrumentation, ISO8528-compliant data acquisition, and site load correction for any application.

Product Knowledge

[SIGMA Load Control Overview Brochure](#)

[SIGMA LT Brochure](#)

[SIGMA 2 Brochure](#)

[Benefits of Networking Load Banks](#)

5000 SERIES Models

Avtron 5000 SERIES Load Banks are available in the following configurations and can be customized to meet the needs of specific applications.

SIGMA LT



5505 | 200-500 kW



5605 | 500-1250 kW



5905 | 1000-2500 kW

SIGMA 2



5500 | 200-500 kW



5600 | 500-1250 kW



5900 | 1000-2500 kW



5800 | 400-3000 kW

5000 SERIES Specifications

Model Name	Capacity (kW)	Frequencies Available (Hz)	Voltage Range (V)	Ambient Temperature Range	Hot Air Discharge Direction	Control Options	Optional Extras
5505	200-500	50, 60, 50/60	400-600	-20°F to 120°F	Horizontal	Local Manual Control, Pilot Relays, Remote I/O, PLC, SIGMA LT	Control Power Transformer, Auto Load Control, Arctic Grade, Fine Resolution
5605	500-1250						
5905	1000-2500						
5500	200-500	50, 60, 50/60	400-600	-20°F to 120°F	Horizontal	Local Manual Control, Pilot Relays, Remote I/O, PLC, SIGMA 2	Control Power Transformer, Auto Load Control, Arctic Grade, Fine Resolution
5600	500-1250						
5900	1000-2500						
5800	400-3000	50, 60, 50/60	400-600	-20°F to 120°F	Vertical	Local Manual Control, Pilot Relays, Remote I/O, PLC, SIGMA 2	Control Power Transformer, Auto Load Control, Arctic Grade, Fine Resolution, Quick Connect Cable Receptacles

Follow the links to web page for each model.



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