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Data Sheet

August 13, 2026

LABWORKS INC.

Labworks Inc. PA-138

Instrument Type: Linear Vibration Power Amplifier Series: PA linear amplifiers Alias: PA-138;
 Labworks PA138 Output Voltage: 25 Vrms Output Current: 20 Arms Rated VA: 500 VA Max
 Continuous Dissipation: 450 W Voltage Source Response: DC to 10 kHz, -0.6 dB Current
 Source Response: DC to 2 kHz, -2 dB at 4 ohms Max Current Gain: 22 A/V Max Voltage Gain:
 34 dB Input Impedance: 10 kohm Cooling: 2-speed fans, automatic Volt Meter: 19-segment bar
 graph, 5%, peak Current Meter: 19-segment bar graph, 5%, rms/pk Interlock: external switch
 or TTL Input Power: 1000 VA maximum Mains Voltage: 100, 120, 220, 240 V single phase Mains
 Frequency: 48 to 62 Hz Dimensions: 3.5 inHx 19 inWx 13 inD Weight: 24 lb (10).



MODEL

Labworks Inc. PA-138

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PA-138

LISTING

<https://aumictechlabs.com/products/pa-138-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Labworks Inc. PA-138 is a linear power amplifier for laboratory and vibration testing applications. It delivers continuous high-quality amplification into low-impedance loads with switch-selectable output modes: voltage source or current source. The unit integrates signal monitoring, proportional current output for force measurement, automatic thermal and over-current protection, and user-configurable external interlock circuitry. Dual-speed forced-air cooling maintains stable operation under continuous duty, with noise levels below 45 dB at low fan speed and below 55 dB at high fan speed. Technical Specifications Output Voltage (Continuous) Open circuit (DC – 0.1 Hz): 45.0 Vdc/pk Open circuit (10 Hz – 20 kHz): 31.0 V rms 4 Ω

load (DC – 0.1 Hz): 36.5 Vdc/pk 4 Ω load (10 Hz – 20 kHz): 26.0 V rms 2 Ω load (DC – 0.1 Hz): 22.0 Vdc/pk 2 Ω load (10 Hz – 20 kHz): 23.5 V rms 1 Ω load (DC – 0.1 Hz): 11.0 Vdc/pk 1 Ω load (10 Hz – 20 kHz): 20.0 V rms Output Current: 20 A rms (continuous) Electrical Performance Maximum continuous dissipation: 450 W Voltage source frequency response (DC – 10 kHz): –0.6 dB Current source frequency response (DC – 2 kHz @ 4 Ω): –2 dB Maximum current gain: 22 A/V Maximum voltage gain: 34 dB Input impedance: 10 k Ω Input power: 1,000 VA maximum Key Features Peak voltage and RMS current bar graph metering DC and AC coupled signal inputs Proportional voltage output for current monitoring and modal testing External interlock circuit with TTL compatibility Automatic over-current and over-temperature protection Two-speed fan with automatic thermal management Typical Applications Vibration system excitation, modal analysis, force monitoring, laboratory signal amplification requiring continuous output into low-impedance loads. Compatibility & Integration Accepts DC and AC coupled inputs. Configurable output impedance supports voltage source or current source operation. Full external interlock capability enables integration with user-defined safety and control logic.

Features & description

From manufacturer datasheet

Features

- 25 Vrms, 20 Arms, 500 VA, 450 W dissipation

PA138 Characteristics / Specifications

PARAMETER	VALUE
Model	PA-138
Manufacturer	Labworks Inc.
Instrument Type	Linear Vibration Power Amplifier
Series	PA linear amplifiers
Alias	PA-138; Labworks PA138
Output Voltage	25 Vrms
Output Current	20 Arms
Rated VA	500 VA
Max Continuous Dissipation	450 W
Voltage Source Response	DC to 10 kHz, -0.6 dB
Current Source Response	DC to 2 kHz, -2 dB at 4 ohms
Max Current Gain	22 A/V
Max Voltage Gain	34 dB
Input Impedance	10 kohm
Cooling	2-speed fans, automatic
Volt Meter	19-segment bar graph, 5%, peak
Current Meter	19-segment bar graph, 5%, rms/pk
Interlock	external switch or TTL
Input Power	1000 VA maximum
Mains Voltage	100, 120, 220, 240 V single phase
Mains Frequency	48 to 62 Hz
Dimensions	3.5 inHx 19 inWx 13 inD Weight: 24 lb (10.9 kg)
Modes	voltage source or current source
Coupling	direct coupled (DC) input and output
Current Monitor	voltage proportional to output current

PARAMETER	VALUE
Protection	overcurrent and overtemperature
Related PA1	180 VA sibling; PA141: 1000 VA
Shaker Examples	ET-126 and ET-139 Labworks systems using PA-138 Notes Specs from Labworks PA-138 OEM page (25 Vrms, 20 Arms, 500 VA, 3.5×19×13 in, 24 lb). Some rental sheets say 20 kHz/500 W marketing; this file uses Labworks tabulated frequency-response numbers.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	PA-138
Manufacturer	Labworks Inc.
Instrument Type	Linear Vibration Power Amplifier
Specifications	
PARAMETER	VALUE
Series	PA linear amplifiers
Alias	PA-138; Labworks PA138
Output Voltage	25 Vrms
Specifications	
PARAMETER	VALUE
Output Current	20 Arms
Rated VA	500 VA
Max Continuous Dissipation	450 W
Specifications	
PARAMETER	VALUE
Voltage Source Response	DC to 10 kHz, -0.6 dB
Current Source Response	DC to 2 kHz, -2 dB at 4 ohms
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Specifications	
PARAMETER	VALUE
Max Voltage Gain	34 dB
Input Impedance	10 kohm
Cooling	2-speed fans, automatic

Specifications

PARAMETER	VALUE
Volt Meter	19-segment bar graph, 5%, peak
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Interlock	external switch or TTL

Specifications

PARAMETER	VALUE
Input Power	1000 VA maximum
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Mains Frequency	48 to 62 Hz

Specifications

PARAMETER	VALUE
Dimensions	3.5 inHx 19 inWx 13 inD Weight: 24 lb (10.9 kg)
Modes	voltage source or current source
Coupling	direct coupled (DC) input and output

Current Monitor: voltage proportional to output current

Protection: overcurrent and overtemperature

Options: rack panel cabinet; BNC signal cables

Related PA151: 180 VA sibling; PA141: 1000 VA

Shaker Examples: ET-126 and ET-139 Labworks systems using PA-138

Notes

Specs from Labworks PA-138 OEM page (25 Vrms, 20 Arms, 500 VA, 3.5x19x13 in, 24 lb). Some rental sheets say 20 kHz/500 W marketing; this file uses Labworks tabulated frequency-response numbers.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.