

PA-151 Linear Power Amplifier



State of the art linear technology and features you won't find on any other commercially available small amplifier.

GENERAL DESCRIPTION

The Labworks PA-1519 Linear Power Amplifier is a high quality, air-cooled, direct-coupled audio amplifier primarily intended for use with small vibration systems.

To insure long term reliability, PA-151 Amplifiers come equipped with protection from both over current and over temperature. External interlock capabilities as well as voltage and current bar graphs to monitor output are also incorporated in the design. An oversized heat sink

allows continuous operation at maximum output. Both DC and AC coupled signal inputs are provided as well as a signal output voltage proportional to output current

Although this amplifier has been designed to directly drive low impedance loads, it can be used in any application requiring continuous duty high quality audio power. PA-151 amplifiers are designed for stand-alone desktop mounting, optional 19 in. rack mount brackets are available. Selectable Voltage or Current Source output modes accommodates all types of vibration testing applications. The amplifier can operate on 100, 115, 200 or 230V, 48 to 60 Hz power

Switch selectable dual internal rail voltage allows this amplifier to be optimally matched to most low impedance loads. This feature reduces the heat dissipated with high current loads reducing heat sink temperatures and output stage dissipation for dependable operation.

FEATURES

- 180 VA, Linear Output
- Voltage or Current Source
- Convection Cooled, no Fan
- Direct coupled for DC operation
- DC-20,000 Hz Frequency Range
- V / I Signal Output
- Output Voltage and Current Meters
- External and Internal Interlock
- Dual Rail Voltage & Soft Start Circuitry



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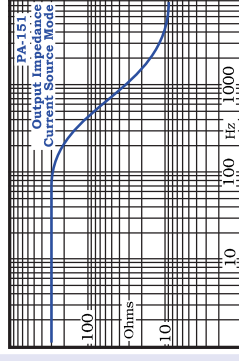
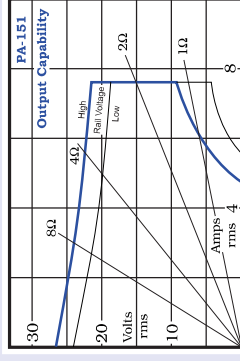
PA-151 SPECIFICATIONS*

Output voltage (continuous) 1.0 Hz to 20 KHz open circuit 4Ω load 2Ω load 1Ω load DC to .10 Hz open circuit 40Ω load 2Ω load 1Ω load	High/Low rail voltage 26.4 / 23.0 V rms 22.5 / 19.5 14.5 / 14.5 6.0 / 7.5 31.5 / 28.5 Vdc/pk 30.0 / 27.0 21.0 / 21.0 5.4 / 6.4
Random voltage output 2.5 sigma peak volts open circuit 40Ω load 2Ω load 1Ω load 3.0 sigma peak volts open circuit 4Ω load 2Ω load 1Ω load	Resolution Peak voltage Average current Accuracy (voltage & current) Interlock circuit Type Response time Action Reset Indicator Cooling Self protection Line protection Input power Voltage Frequency Dimensions w/Optional rack mt. brackets Weight
Maximum continuous dissipation Ambient Temp = 40°C 180W 50 90 60 0	Frequency response (DC coupled input) DC to 10 KHz DC to 20 KHz AC coupling @ 1.0 Hz Slew rate Harmonic distortion (10V, 1000 Hz) Signal/noise ratio (ref 15V out)
Input impedance DC coupled AC coupled DC offset Voltage gain Voltage source regulation Front panel controls Front panel indicators Front panel metering Type	Output Capability Output Impedance Current Source Mode
Frequency response (DC coupled input) DC to 10 KHz DC to 20 KHz AC coupling @ 1.0 Hz Slew rate Harmonic distortion (10V, 1000 Hz) Signal/noise ratio (ref 15V out) Input impedance DC coupled AC coupled DC offset Voltage gain Voltage source regulation Front panel controls Front panel indicators Front panel metering Type	Resolution Peak voltage Average current Accuracy (voltage & current) Interlock circuit Type Response time Action Reset Indicator Cooling Self protection Line protection Input power Voltage Frequency Dimensions w/Optional rack mt. brackets Weight

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Scale, non-enumerated
Voltage
Current
0-20 V peak
0-8 A avg

PERFORMANCE GRAPHS



*Specifications subject to change. Consult factory for latest specifications.
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