PA-119 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-119 Linear Power Amplifier is a high quality, air-cooled, direct-coupled audio amplifier primarily intended for use with small vibration systems.

To ensure long term reliability, PA-119 Amplifiers come equipped with both over-current and over-temperature protection. Also incorporated in the designe are full interlock capabilities as well as

peak voltage and RMS current bar graphs to monitor output. An oversized heat sink allows continuous operation at maximum output. Both DC and AC coupled signal inputs are provided.

This amplifier has been designed to drive low impedance loads directly and can be used in any application requiring continuous duty high quality audio power. PA-119 Amplifiers are designed for standard 19 inch rack mounted installation.

FEATURES

- Linear output stage provides low noise and distortion.
- Automatic over temperature and over current protection.
- Direct coupled input and output allows DC operation.
- Wide bandwidth operation: DC 20,000 Hz.
- External interlock circuitry.
- Convection cooling, no fan noise.
- Lightweight, portable.



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PA-119 SPECIFICATIONS*

Output voltage (continuous)	
1.0 Hz to 20 KHz	
open circuit	19.0 V rms
4Ω load	16.0
2Ω load	12.0
1Ω load	4.0
	4.0
DC to 0.1 Hz	20.0 V/d=/pl
open circuit	26.0 Vdc/pk
4Ω load	21.0
2Ω load	12.0
1Ω load	2.0
Random voltage output	
2.5 sigma peak volts	
open circuit	11.3 V rms
4Ω load	9.5
2Ω load	7.1
1 Ω load	2.4
3.0 sigma peak volts	
open circuit	9.4 V rms
4Ω load	7.9
2Ω load	5.9
1Ω load	2.0
Maximum continuous dissipation	า
Ambient Temp	
40°C	40W
50	20
60	0
Frequency response (DC couple	d input)
DC to 10 KHz	-0.2 dB
DC to 20 KHz	-1.0
AC coupling @ 1.0 Hz	-0.5
Slew rate	2.3 V/µsec
Harmonic distortion	·
(10V, DC-10 KHz)	<0.5% @ 2Ω
Signal/noise ratio	
(ref 15 V out)	100 dB
Input impedance	
DC coupled	6.5 ΚΩ
AC coupled	47 uF in series with 6.5 K Ω
DC offset	10 mV max
Voltage gain	50 (34 dB) max
Voltage source regulation	<0.5 dB (∞- 4Ω load),
	1 KHz/10 V rms
Front panel controls	Power switch,
Sitt parior controls	gain adjust
Front panel indicators	Internal power, interlock trip
Front panel metering	internal power, interlock trip
Type	(2) 19 segment
Турс	horizontal bar graphs
Scale	nonzoniai bar grapris
Voltage	0-16 V pk
Current	0-16 V pk 0-6 A rms
Current	U-U A IIIIS

Resolution	
Peak voltage	5% of full scale
True rms current	5% of full scale
Accuracy (voltage & current)	±5% absolute
Interlock circuit	
Туре	>2 Vdc= fault or switch
Response time	10 ms. max
Action	Output drives to ground
Reset	Gain pot full down or
	< -5V @ INTLK terminal
Indicator	Flashing front panel "Trip" light
Cooling	Natural convection
Self protection	Over-current, over-temperature
Line protection	
Front panel circuit breaker	Magnetic type
Input power	225 VA max
Voltage	100, 115, 200 or 230 Vac
Frequency	48 to 62 Hz
Dimensions	3.5" H x 19" W x 13" D
Weight	15 lbs

^{*}Specifications subject to change. Consult factory for latest specifications.

PERFORMANCE GRAPHS

