PA25 Amplifier

Features

- *Open Loop Control*
- *Low Noise*
- *High Stability*
- *High Power*
- *Output Voltage: 0 - 150V*
- *Compatible with Mad City Labs piezo actuators*

Product Description

The PA25 is a single channel amplifier suitable for driving low voltage (150V) piezo actuators. The PA25 amplifier combines low noise and outstanding stability with high power output making it ideal for open loop, high resolution control of piezos. The PA25 is equipped with a front panel analog input BNC for high precision command voltage control. A single channel high voltage (0 - 150V) output is conveniently located on the front panel This high voltage BNC connector can be interfaced to our bare piezoactuators for precision motion applications.

Specifications	
Analog Input	*0 V to +10 V*
Command Signal Input Impedance	*10 kΩ*
Gain (0 - 10V input)	*15 V_{our}/1V_{in}*
Amplifier Output Voltage	*0 V to +150 V*
Maximum Drive Current (continuous)	*160 mA*
Power Output (continuous)	*10 W*
Output Impedance	*10 Ω*
Output Noise	*< 50 µV_{rms} (1 - 100Hz)*
Output Short Circuit Protection	*YES*
Steady State Power Consumption	*< 0.5 W*
Current Consumption (max.)	*500 mA*
-3 dB Bandwidth	
No Load (200 mV_{p-p} input)	*32 kHz*
No Load (10 V_{p-p} input)	*32 kHz*
1.0 µF load, current limited	*550 Hz*
Stability	*< 0.01% over 16 hours*
General	
AC Input Voltage	*100 - 240 VAC*
AC Input Frequency	*60/50 Hz*
AC Input Power (max.)	*30 W*
Analog Input	*BNC*
High Voltage Output	*BNC*
Operating Temperature	*5°C to 40°C*
Dimensions	*12" × 8.375" × 3.5" (305 × 213 × 89 mm)*