



RDL®
Radio Design Labs

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON® SERIES

Model ST-PA6

Audio Power Amplifier

- 6 Watts RMS Into 8 Ω
- Amplifier with Balanced Audio Inputs
- Built In Two-Input Mixer
- Low Noise and Distortion
- Amplifier with "Loudness" Equalization



The ST-PA6 is a utility power amplifier in the convenient line of STICK-ON products from Radio Design Labs. The durable bottom adhesive permits quick, permanent or removable mounting nearly anywhere, or it may be used with RDL's racking accessories. The ST-PA6 gives you the advantages of a quality audio power amplifier with the added convenience of STICK-ONs! STICK-ONs are designed, built and rated for continuous duty in professional A/V systems.

APPLICATION: The ST-PA6 features two balanced audio inputs, a gain control, and an 8 Ω output. The output is designed to deliver a clean 6 Watts RMS into an 8 Ω speaker. Each input is a balanced bridge, with the two inputs mixed equally. This is particularly useful for monitoring a stereo line. The output stage features protection against short-circuits and thermal overload. The output protection automatically resets once the condition is removed, making fuse protection unnecessary!

The compact design and low cost of the ST-PA6 allow using it to individually drive each speaker in many installations. Since most applications using low speaker power levels are running music at a *background* level, speaker inefficiencies tend to produce a *thin* sound lacking in low frequencies. The traditional approach to correct this has been to cut the high frequency response producing an apparent increase in bass. The ST-PA6 now offers actual equalization, permitting the installer to set the low frequency boost, rather than a high-frequency cut. As reproduction quality has improved, listeners have become more sophisticated, and crisp, high-frequency response is expected in a quality sound system. With the ST-PA6, this flexibility is now available for the cost of a typical utility amplifier!

The convenience and low cost of the ST-PA6 make it the ideal choice as a building block in many systems, from simple to complex. Use the ST-PA6 individually, or combine it with other products as part of a complete audio/video system.

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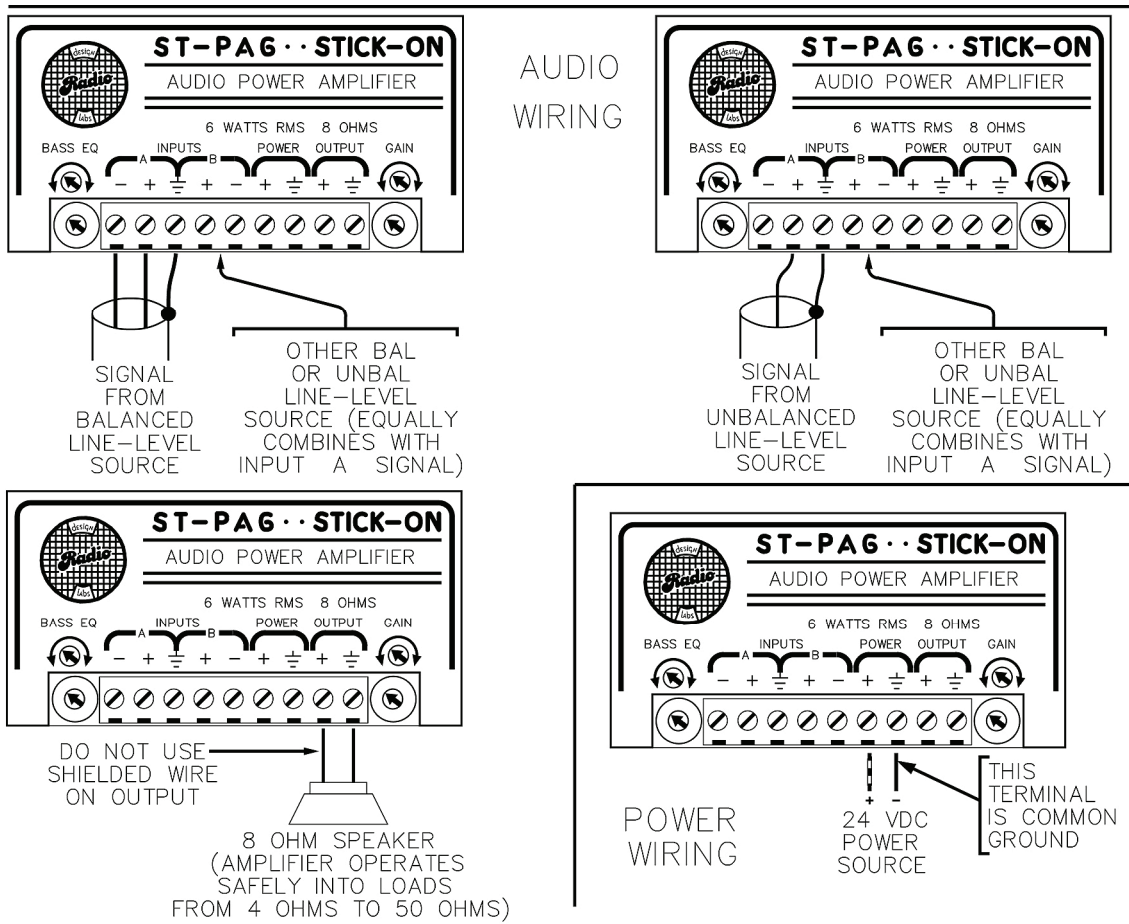
Audio Power Amplifier

Installation/Operation



EN55103-1 E1-E5; EN55103-2 E1-E4

Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.



TYPICAL PERFORMANCE

Inputs (2):	100 k Ω balanced (may be wired unbalanced, inputs equally combined)
Input Level:	400 mV (RMS) minimum (for rated power output)
Freq. Response:	35 Hz to 20 kHz ($\pm$ 1.5 dB w/EQ setting flat)
Equalization (Single-turn trimmer):	Flat to +5 dB @ 60 Hz (center frequency of boost)
	Flat to +4 dB @ 100 Hz
	Flat to +3 dB @ 120 Hz
THD+N:	< 0.35%
Noise:	< -60 dB
Output:	8 Ω unbalanced, 6 watts RMS
Ambient Operating Environment:	0° C to 40° C
Power:	24 Vdc @ 400 mA, Ground referenced

Radio Design Labs Technical Support Centers

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