



RDL® Radio Design Labs®

SPECIALISTS IN PRACTICAL PRECISION ENGINEERING™

STICK-ON® SERIES

Model ST-PA2

Utility Power Amplifier

ANYWHERE YOU NEED...

- Up to 2 Watts RMS into 8 Ω
- Up to +12 dBu into 600 Ω
- Quality Utility Amplifier
- Intercom Driver
- Music-On-Hold Driver

You Need The ST-PA2!



The ST-PA2 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-PA2 gives you the advantages of a utility amplifier with the added convenience of STICK-ONS!

APPLICATION: The ST-PA2 represents the second-generation in RDL's breakthrough in the traditional power vs. size ratio. Present technology permits features and performance at the most economical cost ever. The ST-PA2 offers 2 Watts of power, twice the power of most utility amplifiers, for a price you would expect to pay for 1 Watt!

The ST-PA2 features a single, unbalanced audio input, a gain control, and two outputs. The first output is designed to deliver a clean 2 Watts RMS into an 8 Ω speaker. The second output is intended to drive 600 Ω transformers, typically on equipment inputs. This makes the ST-PA2 uniquely suited applications such as music-on-hold inputs on telephone systems, which may have either 8 Ω or 600 Ω inputs. If desired, both outputs may be used at the same time.

The convenience and low cost of the ST-PA2 make it the ultimate choice as a building block in many systems, from simple to complex. It may be used in combination with other STICK-ONS to form custom intercoms or talk-back systems, or can be used by itself to drive a single speaker with music or voice. For either straightforward or creative applications requiring a utility power amplifier, the ST-PA2 is the optimum choice!

Note: The ST-PA2 is not intended to drive long 600 Ω audio lines or multiple equipment inputs. For these applications, see the STA-1 (stereo), the STA-1M (mono), or the ST-DA3 (distributed). If balanced audio input is required, see the ST-PA6 audio power amplifier.

Wherever an audio amplifier is needed, the ST-PA2 is the ideal choice. Use the ST-PA2 combined with other RDL RACK-UP®, STICK-ON, TX™, or FLAT-PAK™ series products as part of a complete audio/video system.



STICK-ON® SERIES

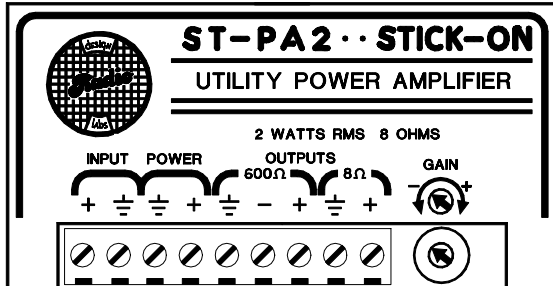
Model ST-PA2

Utility Power Amplifier

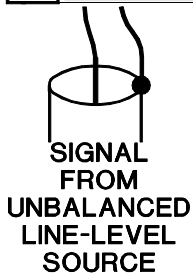
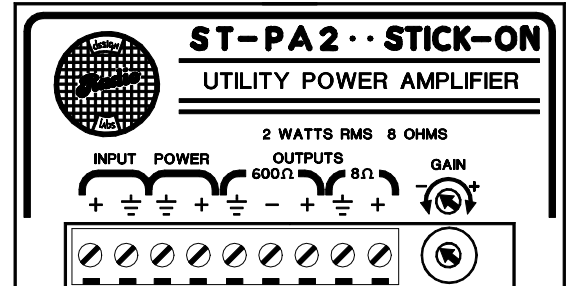
Installation/Operation



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.

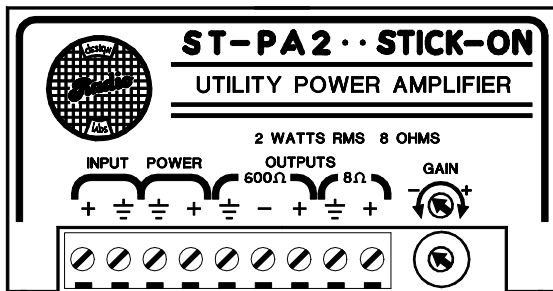


AUDIO WIRING



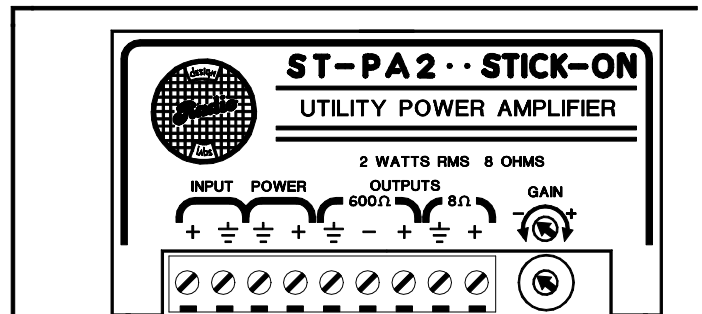
ADJUST LEVELS

THE 600 OHM OUTPUT IS NOT INTENDED AS A LONG LINE DRIVER. USE OTHER RDL PRODUCTS SUCH AS THE ST-DA3, STA-1, OR STA-1M.



DO NOT USE SHIELDED WIRE ON OUTPUT

8 OHM SPEAKER (AMPLIFIER OPERATES SAFELY INTO LOADS FROM 4 OHMS TO 50 OHMS)



THIS TERMINAL IS COMMON GROUND 24 VDC POWER SOURCE

POWER WIRING

TYPICAL PERFORMANCE

Input Configuration:
 Input Level:

Unbalanced 10 kΩ
 -15 dBV minimum (for rated power output)
 -20 dBV minimum (for 1 watt RMS into 8 Ω)

Frequency Response:

35 Hz to 30 kHz (8 Ω +/- 1.5 dB)
 20 Hz to 30 kHz (600 Ω +/- 0.5 dB)

THD+N:
 Noise:

< 0.75% (0.5 % typical)
 < -80 dB (8 Ω @ 2 W RMS)
 < -70 dB (600 Ω, referred to +4 dBu)

Outputs (2):

1 @ 8 Ω, 2 watts RMS maximum
 1 @ 600 Ω, +12 dBu maximum

Power:

24 to 33 Vdc @ 150 mA, Ground-referenced

Radio Design Labs Technical Support Centers

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