





NTRODUCTION

Boasting 150 Watts per channel at 2 ohms, the Z•300 is designed and engineered to be the definitive cornerstone component for any high fidelity audio system. The Z•300's discrete output circuitry easily powers up to four pair of 8 ohm speakers simultaneously, eliminating the need for speaker selector boxes or load protection devices. Buffered loop outputs provide easy connection of additional amplifiers—a necessity when you are creating that "monster" home theater or multi-room audio system where more than two channels are required.

With its 1.75" low profile and elegant front panel design, the Z•300 Power Amplifier looks great and fits perfectly in any entertainment center or rack of source equipment. Its small stature makes room for bulkier components that normally require two and sometimes three or four rack spaces.

...QUALITY DESIGN

At the heart of this amplifier's benchmark design you'll find quality components and workmanship. Integrated output topology guarantees audiophile sound— power connections to each channel from the whisper-quiet torroidal transformer maintain channel separation, eliminating crosstalk and intermodulation distortion. Three parallel amplifiers per channel provide high-current drive for high-impact bass performance. An extremely low THD rating,

exceptional signal-to-noise ratio and dynamic frequency response translate into true audio prowess.

The Z•300 also features three pair of gold-plated 5-way binding posts for easy connection of multiple speaker pairs, a Remote Audio Mute Circuit that eliminates any "noise" that might come through the speakers when the source components are not in use, and "installer-friendly" Channel Level Adjustments which are easily accessible via the front panel.

Robust circuit protection is a standard in all Z. Series products. Independent thermal and short circuit protection has been implemented to protect the unit in the harshest operating conditions. Outputs are safeguarded against over/under voltages, overloads (including shorts), thermal runaway and instantaneous temperature peaks. The design has been extensively tested to assure optimal performance.

CRAFTED IN THE USA

Designed and engineered by ELAN's audio engineers and manufactured in our Lexington, Kentucky facility, the highest quality control standards have been implemented to ensure a superior product that will provide years of listening enjoyment. Our commitment to you is quality.

SPECIFICATIONS

POWER RATING • RMS

Output Power

150W @ 2.0 ohms per channel 100W @ 4.0 ohms per channel 60W @ 8.0 ohms per channel

GAIN 28dB, fixed

FREQUENCY RESPONSE 20 Hz to 20 kHz -.5 dB 5 Hz to 30 kHz -3.0 dB **Power Bandwidth**

>110dB (A-weighted, 60W @ 8 ohms) Signal-to-Noise Channel Separation>-70dB (channel to channel @ 1kHz)

HARMONIC DISTORTION

Total Harmonic Distortion < .03% 20 Hz to 20 kHz Intermodulation Distortion > -90dB, 5Hz to 22 kHz Voltage Gain (Av) 28 Slew Rate >20V/microsecond Input Impedance 33k ohms .707 VRMS (60W @ 8 ohms) Input Sensitivity

CONNECTORS

Gold RCA phono Input Output Gold 5-way binding posts (3 pair)

REMOTE IN 5 to 24V AC/DC REMOTE OUT +12VDC

POWER REQUIREMENTS 120 VAC • 440W (average) **Power Supply** Ultra-high efficiencytoroidal

linear supply. 40,000 uF storage capacitance effortlessly sustains instantaneous high current demand

DIMENSIONS/WEIGHT

Freestanding Model 1.75 x 17.0 x 10.0 inches 4.5 x 41.3 x 25.4 cm **Rackmount Model** 1.75 x 19.0 x 10.0 inches 4.5 x 46.3 x 25.4 cm Weight

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300 TWO-CHANNEL POWER AMPLIFIER **Limited Warranty**

ELAN HOME SYSTEMS, L.L.C. ("ELAN") warrants the Z•300 TWO-CHANNLE POWER AMPLIFIER manufactured by it to be free from defects in materials and workmanship for two (2) years from the date of purchase. If within the applicable warranty period above purchaser discovers such item was not as warranted above and promptly notifies ELAN in writing, ELAN shall repair or replace the items at the company's option. This warranty shall not apply (a) to equipment not manufactured by ELAN, (b) to equipment found to have been installed by other than an authorized ELAN installer, (c) to installed equipment which is not installed to ELAN's specifications, (d) to equipment found to have been repaired or altered by others than ELAN. (e) to equipment found to have been subjected to negligence, accident. or damage by circumstances beyond ELAN's control, including, but not limited to, lightning, flood, electrical surge, tornado, earthquake, or any other catastrophic events beyond ELAN's control, or to improper operation, maintenance or storage, or to other than normal use of service. With respect to equipment sold by, but not manufactured by ELAN, the warranty obligations of ELAN shall in all respects conform and be limited to the warranty actually extended to ELAN by its supplier. The foregoing warranties do not cover reimbursement for labor, transportation, removal, installation, or other expenses which may be incurred in connection with repair or replacement

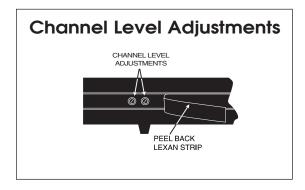
Except as may be expressly provided and authorized in writing by ELAN, ELAN shall not be subject to any other obligations or liabilities whatsoever with respect to equipment manufactured by ELAN or services rendered by ELAN.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESSED AND IMPLIED WARRANTIES EXCEPT WARRANTIES OF TITLE, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF

ELAN "On-Site" Technical Support

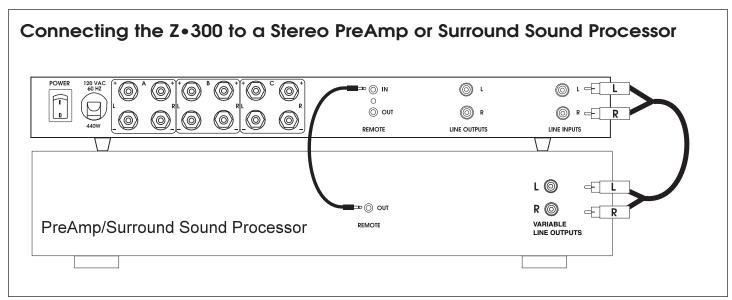


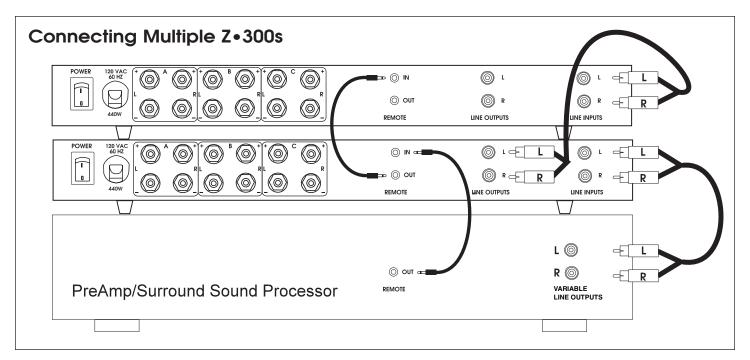
Z 300 CONNECTIONS



Remote In/Out

Many audio receivers and pre-amps have a remote "Power Up" output jack that sends a low voltage signal to other equipment to turn them on or off. The Z•300 can utilize this signal to mute the audio outputs of the amplifier, essentially switching the Z•300 to "standby" mode. This feature eliminates any noise that may be generated by source components when they are not in use. Remote In: 5 to 24V AC/DC







Z 300 CONNECTIONS

Connecting Multiple Speaker Pairs

Since the Z•300 Power Amplifier is stable down to a 2 ohm load, it can handle multiple speaker pairs wired in parallel.

The diagrams below show the maximum number of speaker pairs than can be connected to the Z•300.



EXCEEDING THESE MAXIMUMS MAY CAUSE DAMAGE TO THE Z•300 AND WILL VOID THE MANUFACTURER'S WARRANTY.

