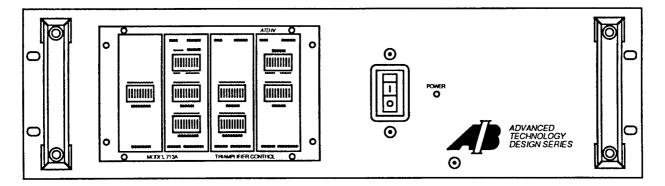
ADVANCED TECHNOLOGY DESIGN SERIES



TRIAMPLIFIER



ADVANCED TECHNOLOGY

Advanced Technology Design Series IV from AB International is a modular system of high performance power amplifiers and electronic signal processing that may be precisely tailored to the specific requirements of professional loudspeaker components.

The experience gained from building three generations of signal-processing power amplifiers brings new features and new standards of performance to ATD IV. In the 713A, the low frequency power amplifier is fullycomplementary and operated from a six-level logic-gated power supply that adapts to the input waveform, providing only the DC rail voltages that are required for undistorted amplification. The result is tremendous output capability, cool operation and unconditional stability over an unusually wide range of load conditions. A delayed-ON, instant-OFF muting control circuit allows internal supply voltages to stabilize before loudspeakers are connected. Speaker connections are instantly removed, should there be an interruption of AC power.

The 713A provides power amplification, signal processing and precise control for high-performance three-way loudspeaker systems, while avoiding the interface and operational problems usually encountered with separate components. Included are three apportioned power amplifiers, system high pass filters, precision step attenuators, fourth-order Bessel active crossovers, all-pass delay networks for time-phase correction, low frequency Thiele-Small alignment equalization and exacting power response compensation for professional compression drivers.

For users desiring specific non-standard features and/or signal processing, a wide range of options are available for this purpose. See 'Optional Equipment' brochure for details.

SPECIFICATIONS

Type: Triamplifier with on-board

signal processing

Power output:1 IF. 500 w at 8 Ω

750 w at 4 Ω 1000 w at 2 Ω

MF: 300 w at 8 Ω 500 w at 4 Ω HF: 150 w at 8 Ω

Gain: 32.5 dB, LF-MF-HF

Input sensitivity:2 1.5 Vrms (referred to rated 8Ω LF output)

Input impedance: 15 kΩ, balanced or unbalanced

Noise level: 100 dB below rated outputs, unweighted

Crossovers:3 800 Hz and 7 kHz, 4-pole

(24 dB/octave) Bessel response

Signal processing:3 System high pass (40 or 80 Hz) 2nd-order M-derived w/adjustable underdamping for

assisted Thiele-Small alignments

Adjustable low-pass delay for LF

and MF outputs

Adjustable HF equalization for power response compensation

Controls: Power, system level

Delay, level, high pass/EQ Delay, level level, EQ

MF:

XLR-3 (bal.) with loop-thru and ground lift Input connectors:

switch, 1/4-inch (unbal.)

120/240 VAC, 50/60 Hz, 500w (avg.) Power requirements:

1800 w (max.)

Physical: 5-1/4" (13.3cm) H x 19" (48.3cm) W x

13-1/2" (34.3cm) D; 45 lbs. (20.5 kg.)

1. Continuous power output at less than 0.1% THD, 20 Hz to 20 kHz, outputs normalized for full-range operation.

2. With all level controls adjusted for zero attenuation, normalized response to a swept

3. A wide range of optional crossovers and signal processing is available. Please refer to optional equipment for details.

