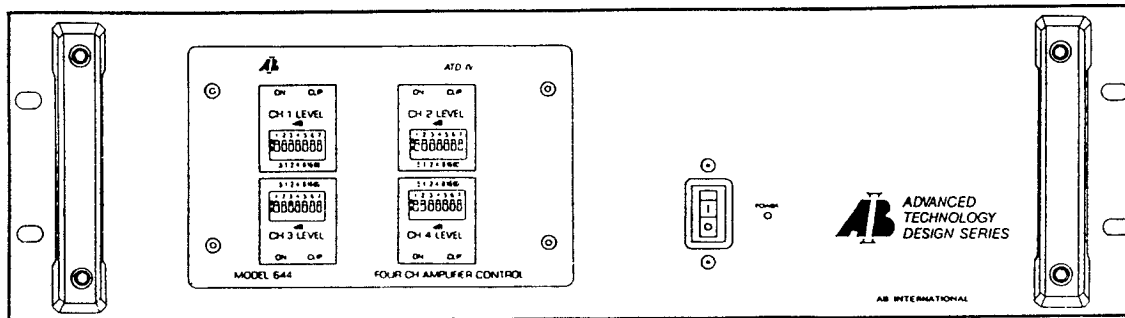


**ADVANCED
TECHNOLOGY
DESIGN SERIES**

644A

**FOUR CHANNEL
AMPLIFIER**



Advanced Technology Design Series 1V 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 1V.

The AB International ATD Series 644A is a four channel power amplifier. This compact (three rack unit) instrument features individual channel Dip switch level controls and signal/clip indicators, XLR inputs (balanced), and a ground lift switch. The 644A delivers 270 Watts per channel 8 Ohm, 425 Watts per channel into 4 Ohm, and 290 Watts into 2 Ohm.

The 644A employs only 20dB of negative feedback to reduce forward transfer distortion components to minimum levels. VI energy limiters are incorporated for short-circuit protection and a thermal sensor prevents an over-temperature condition.

Other features include convection cooling with a massive heatsink array and a temperature activated DC fan for extreme load conditions, "Soft Clip" speaker protection circuitry, selectable input sensitivity, ground lift switch and a fully modular construction for service accessibility.

The AB International Model 644A features delayed-ON, instant-OFF muting control circuit allows supply voltages to stabilize before loudspeakers are connected. Speaker connections are instantly removed, should there be an interruption of AC power.

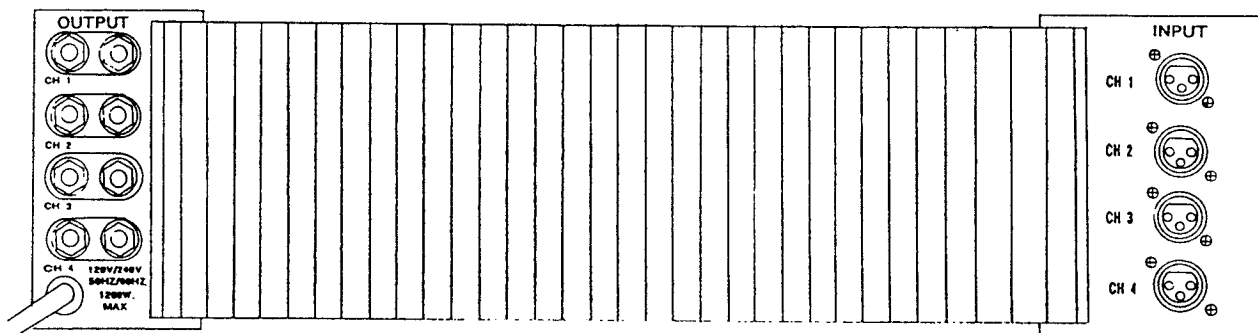
For users desiring specific non-standard features and/or signal processing, a wide variety of options are available, including high pass frequencies, crossover frequencies and filter topology and HF power response equalization, contact AB International for details.

The 644A operates from 100-240V 50-60Hz AC mains and measures 5 1/4" high (three rack unit) 19" wide and 12.0" deep.

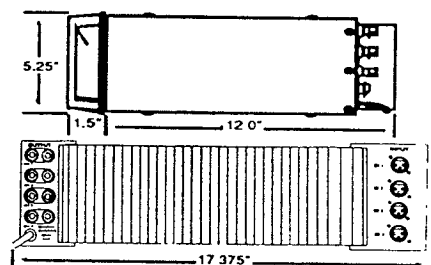
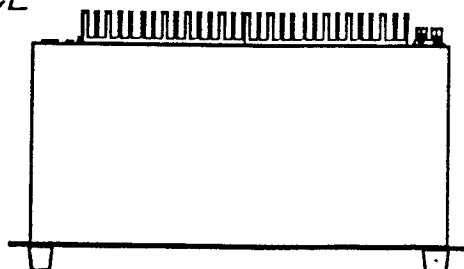
AB MODEL 644A SPECIFICATIONS

Type:	Four channel amplifier	Input Connectors:	Balanced XLR
Gain:	28dB	Output Connec. Control & Indicators:	5-Way Binding Post (Front panel) AC mains power switch, power on LED, dip switch level control, signal/clip indicator (Rear panel) ground lift switch .
Power Output Per Channel:	270 watts into 8 Ohm 425 watts into 4 Ohm 290 watts into 2 Ohm	Turn-On Delay:	3 sec., solid-state actuated
Frequency Response:	Plus/minus .25dB 20Hz to 20kHz	Power Requirements:	100/240VAC 50/60Hz@ 10A/5A
Distortion:	No more than 0.25% THD or IM, 0.01 to rated output, 20Hz to 20kHz (typically 0.01%)	DC Protection:	DC sensor activates Channel shutdown if DC condition exists, Soft clip protection
Hum & Noise:	101 dB below rated output	Cooling:	Rear Convection/Fan Assist
Input Sensitivity:	1.0v RMS for rated output (selectable).775v, 1.0v, 1.5v	Weight:	29lbs. (13.2kg)
Crosstalk::	-86dB		

REAR PANEL



APPEARANCE



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