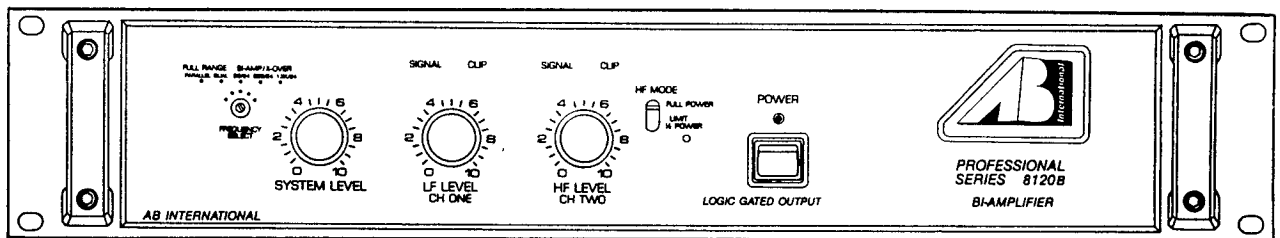




# MODEL 8120B

## PROFESSIONAL SERIES

### TWO CHANNEL & BI-AMPLIFIER



The AB International Professional Series 8120B is a mono Bi-Amplifier or a two channel stereo amplifier. This compact (two rack unit) instrument gives you the flexibility in using the amplifier in a two channel full range stereo operation or as a mono bi-amplifier featuring a selectable internal crossover. Each channel has individual level controls, signal/clip indicators and a system level control is added for the Bi-Amplifier mode. The 8120B features dual 1/4" jack inputs (unbalanced), dual XLR inputs (balanced), ground lift switch, and a Stereo/Bridge switch. In the full range stereo operation or in Bi-Amplifier mode the 8120B delivers 500 Watts per channel into 8 Ohm, 800 Watts per channel into 4 Ohm, and 1050 Watts per channel into 2 Ohm. In Bi-Amplifier operation, the high frequency channel has a built in power limiter which is selectable between full power and half power limit or -3dB.

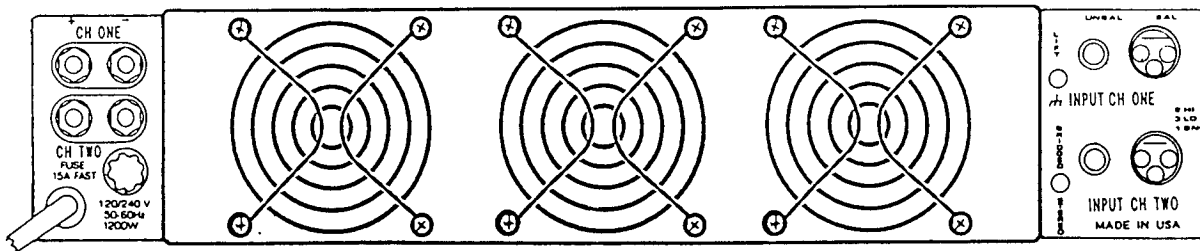
Other features includes three dual speed temperature actuated DC fans, "Soft Clip" speaker protection circuitry, selectable input sensitivity, and a fully modular construction for service accessibility.

The 8120B selectable crossover features a 24dB per octave Linkwitz Riley filter, with standard frequencies of 80Hz, 1200Hz and 1600Hz. Other frequencies and custom filters are available upon request.

The AB International Model 8120B features the "Logic Operated Gated Output" supply system. High current, fully complimentary output stages are powered by dual tri-level supplies that gate the operating voltages around the output wave form. This is used to control and eliminate unused and inefficient headroom.

The 8120B operates from 100-240V 50-60Hz AC mains and measures 3 1/2" high (two rack unit), 19" wide and 15" deep.

# AB MODEL 8120B SPECIFICATIONS



|  |   |                                |   |
|--|---|--------------------------------|---|
| <b>Type:</b>                               | Two channel amplifier   | <b>Slew Rate:</b>              | Closed-loop response greater than 40V per microsecond                                   |
| <b>Continuous Power Output Per Channel</b> | 500w into 8 Ohms<br>800w into 4 Ohms<br>1050w into 2 Ohms   | <b>Crosstalk:</b>              | -80dB   |
| <b>Frequency Response:</b>                 | 1300w 8 ohms Bridged<br>1650w 4 ohms Bridged<br>Plus/minus 0.25dB 20-20kHz  | <b>Gain:</b>                   | 36dB  |
| <b>Distortion:</b>                         | No more than 0.1% THD or IM 0.01 to rated output.   | <b>Mainframe Power Supply:</b> | Toroidal transformer<br>4EA (20,000 uf) capacitors                                      |
| <b>Hum &amp; Noise:</b>                    | 101 dB below rated output (unweighted, 20kHz bandwidth)   | <b>Turn-On Delay:</b>          | 3 sec., solid-state actuated  |
| <b>Input Sensitivity:</b>                  | 1.0V RMS for rated output (selectable) .775V, 1.0V, 1.5V  | <b>Power Requirements:</b>     | AC Mains- 100-240VAC<br>50/60Hz@15A/7.5A  |
| <b>Input Connectors:</b>                   | 1/4" phone jack (unbalanced)<br>XLR (balanced)  | <b>Thermal Protection:</b>     | Thermal sensor activates channel shutdown if an overheating condition exists            |
| <b>Output Connect.:</b>                    | 5-way binding posts   | <b>DC Protection:</b>          | DC sensor activates channel shutdown if DC condition exists, Soft clip protection       |
| <b>Control &amp; Indicators:</b>           | (Front panel) AC mains power switch, power on LED, level controls, Signal/Clip LED's, Freq. selector switch, HF limiting switch and LED<br>(Rear panel) ground lift switch, stereo/bridged switch | <b>Heatsink and Cooling:</b>   | Dual speed fans providing extra power handling utilizing massive heatsink extrusions    |
| <b>Damping Factor:</b>                     | 500:1 at 1kHz   | <b>Construction:</b>           | 14-gauge cold-rolled steel with 3/16" heavy aluminum front panel                        |
|  |   | <b>Dimensions:</b>             | Slimline 3 1/2" height, 19" standard rack mount width, 15" depth overall (less handles) |
|  |   | <b>Weight:</b>                 | 39 lbs. (17.72 kg)  |