

PRELIMINARY



Designed, Engineered &
Assembled in the USA

CLASS A/B SERIES - AT2200 & AT3300

The brand new AT2200 & AT3300 Series amplifiers are the next evolution of ATI Class A/B power. We have made some changes to the overall design and assembly you have come to associate with ATI.

First, we changed the layout of the amplifiers in the chassis. We combined up to 4 channels of amplification onto a single heat-sink. Doing this allowed us to add an 8 channel configuration to the model lines as well as make a smaller & lighter chassis for amplifier configurations up to 4 channels. But, as we know from our other brands, having 4 amplifier channels on one heatsink generates a lot of heat. So we added a thermally controlled ultra quiet computer fan per 4 channel amplifier module to assist in keeping the amps cool.

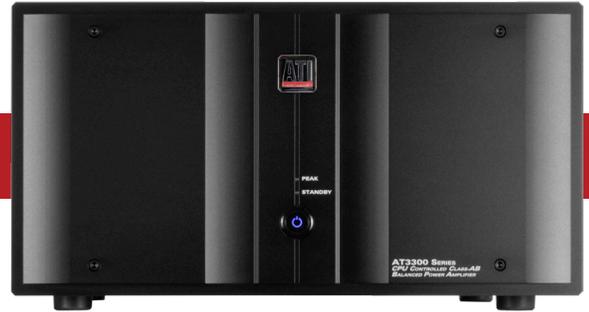
Next, we placed the input connectors directly on the amplifier PCB, removing a possible weak point in the audio signal path. At this point, we also moved the AC power section; inlets, circuit breakers and standby power supply, to the center creating a symmetrical chassis assembly providing for better air flow for the fans and heatsinks within the chassis.

Finally, we changed the amplifier design these new models use to our Current Feedback Balanced Amplifier topology: the same topology used in the AT6000 & AT4000 Signature Amplifiers. But we couldn't leave well enough alone and made a change to this design. We removed the manual bias adjustment that all ATI Class A/B power amplifiers have used since the beginning and replaced it with a true temperature sensor controlled bias circuit.

ATI believes this is a game changing technology which solves a difficult problem facing all traditional class A/B power amplifiers; maintaining optimum bias current in the output stage. This new bias circuit solves this problem by incorporating a microprocessor which gathers information from an array of sensors which, in addition to directly measuring bias current, measure the temperature of the heatsink and the audio signal - thousands of times per second.

A major benefit is that the amplifier can be biased farther into the class "A" region at low signal levels. The amplifier also does not need a warm-up period since the bias is optimum from the moment of turn-on. This new bias control circuit also allows for some additional features;

- 1) "Standby mode" - after 10 minutes in which there is no signal detected, the bias is set to minimize power consumption in the output stage and when an audio signal is sensed, the amplifier immediately returns to normal operation,
- 2) "Enhanced Bias mode" - the operating bias can be increased on selected channels.



Specifications - Preliminary & Subject to Change		
	AT3300	AT2200
Channel Count	2 to 8 Channels	
Power Output (FTC 20Hz-20kHz into 8Ω)	330W	220W
THD+N (@ FTC Power)	<0.1%	
Gain (XLR/RCA)	28dB	
Input Sensitivity		
Frequency Response	20Hz - 20kHz ±0.5	
Signal to Noise Ratio - Referenced to Rated Power	Better Than 120dB	
Load Impedance	4Ω to 16Ω	
Damping Factor		
Crosstalk - Adjacent		
Crosstalk - Skipped		
Crosstalk - Bank/Bank		
Input Impedance		
Output DC Offset	<±5mV	
Power - Requirements	120 VAC 60Hz 240VAC 50Hz Factory Configured	
Power - Consumption	1440W(2CH) 2X 2400W (8CH)	720W (2CH) 2400W (8CH)
Chassis Dimensions (H,W,D) Up to 4 Channels	5RU x 17in x 13.5 in	4RU x 17in x 13.5 in
Chassis Dimensions (H,W,D) 5 to 8 Channels	5RU x 17in x 16.5 in	4RU x 17in x 16.5 in