

## **AP2250**

---

# **Dual Monaural Power Amplifier Class A**



### INTRODUCING THE AP2250 DUAL MONO AUDIO AMPLIFIER

The best audio amplifier is about sufficient power to drive good speakers, transparency in the audio path, and respecting the sound quality of the artist. We feel that we have a solution that stands above our competition. Here are some of our features.

The AP2250, two channel 250 Watts per channel class “A” low idle current amplifier, has been designed using the best possible technologies to give many years of reliable problem free enjoyment. Most notable in this series of audio products is a return to massive oversized heat-sinks supporting an analog design. We broke away from the trend to develop lighter smaller units that sacrificed audio reproduction quality for size, weight and AC power efficiency. Our massive 36 pounds of heat-sinks, not only keeps the case temperature comfortable to touch, they will greatly reduce power transistor failures and increase optimum performance life-span beyond any manufacture’s traditional warranty period. What does this mean, the best possible sound for a lifetime. Should it ever be necessary, this feature packed design for the audio connoisseur comes standard with a five(5) year limited warranty.

The single most prominent feature of the AP2250 power amplifier series is its “Dual Monaural Design”. Not really a new approach to the audio world -- just one of the best. We have taken great care to design and construct this unit to insure that the full intent of dual monaural is expressed – Without Shortcuts. The three layers of ground paths use loop-breaking techniques. No DC power supply lines are common between amplifier sections of this unit. No outside power source is coupled to any electrical buss or ground. The result is two fully isolated independent power amplifier channels.

“Two Fully Independent Channels” means complete autonomy for each channel with all the possible flexibility and benefits. Each channel has its own independent protection and safety circuits. Even if a catastrophic failure occurs in one channel the other will remain fully operational. Only the AC power controller and remote power sequencer is common to both channels. Once the AC power is delivered to the two massive high efficiency 500watt toroidal power transformers, all control is turned over to the independent channels.

The second feature that you will find in this series is the Sensory-Touch display control panel. No out dated switches and metering, just a clean, refined, unpretentious appearance. “No switches”, means fewer mechanical components to breakdown over time. This series uses the latest in optical switch technology to replace their mechanical predecessors. Simply touch the display at the On/Off symbol to activate or deactivate the unit. The onboard controller brings the unit up and takes it down with the least amount of stress to the electrical systems – both for the unit and the surrounding electrical systems.

The controls in this series, unlike the vast majority of the equipment in today’s marketplace, have been implemented, purposely, to minimize the use of Digital ICs and CPUs. First, CPUs use high frequency clocks that generate audible noise harmonics that find their way into the surrounding electronic circuits. This amplifier, by design, is intended to take in weak signals and boost those signals to a high level sufficient to drive speakers. Any foreign signal present, no matter how careful the designer, will appear in and discolor the desired audio signal output. Secondly, CPUs over complicate a design with a vast array of logic and programming. This leads to slower responses times to commands and safety features – more issues with components and speakers. If this unit ever fails we want the issue to be minimal. Finally, the more components present in any system results in more points of potential failure and will shorten the functional lifespan. This is a proven fact of engineering that we choose not to subject our customers to any more than necessary.

If you want to use a home control system or smart device with your audio system, the AP2250 comes standard with an electrically isolated remote control connection. You can easily connect one or multiple AP2250 amplifiers to an Audio Controller, Home Theater, or Pre-Amplifier using their provided remote “Power-On” sequencer connection.

## SPECIFICATIONS

Power Output	250Watts RMS @ 8 Ohms Both Channels Driven 380Watts RMS @ 4 Ohms Both Channels Driven (Output Stable Below 2 ohm Loads)
Frequency Response	10Hz to 20kHz +0.05dB -0.2dB @ Full Rated Power
Frequency Bandwidth	5Hz to 150Khz @ Rated Gain
Slew Rate	Greater Than 20V/uSec. Front-to-Back all Filters in Place
Total Harmonic Distortion	THD+N Less Than 0.04% 1Watt to 250Watts @ 20Hz to 20kHz
Damping Factor	Greater Than 150 @ 2kHz into 8 Ohms
Crosstalk	Better Than -90dB @ 20Hz to 20kHz
Signal-to-Noise	Better Than -100dB un-weighted at Rated Power
Gain, Voltage (Audiophile setting)	20 (26.0dB) RCA Inputs (Optional Factory Setting Required) 20 (26.0dB) XLR Inputs
Gain, Voltage (THX™ setting)	28.28 (29.0dB) RCA Inputs
Input Impedance	47k Ohms
Input Sensitivity	2.24Vrms for Full Rated Power Into 8 Ohms (Optional Factory Setting Required)
Input Sensitivity (THX™ setting)	1.59Vrms for Full Rated Power Into 8 Ohms
Dynamic Headroom	+1.5dB Before Clipping +0.5dB @ 0.1% THD+N
Remote Trigger Voltage	3.0 to 12.0Volts DC @ 10mA or Greater Positive Signal Logic Control (On = 3.0 to 12VDC, Off = 0 to 1.2VDC) 1200VDC Isolation
Dimensions Maximum	Non-Rack 7.50" (191mm) x 17.5" (445mm) x 18.5" (470mm) H x W x D Rack Mount 7.50" (191mm) x 19" (483mm) x 18.5" (470mm) H x W x D
Weight	70 Lbs (32kg)
Weight w/Package	77 Lbs (35kg)
Power Requirements	115VAC 50/60Hz or 230VAC 50/60Hz 1800Watts RMS Maximum Idle (Standby consumption) 4Watt RMS Maximum Idle (Active consumption No Audio) 120Watts RMS Maximum Surge (Power-Up) 115VAC 50/60Hz 15Amperes @100ms Maximum
Humidity Operational	0-90 % Percent Non-Condensing
Humidity Storage	95 % Percent Non-Condensing
Temperature Operational	+5F to +80F (-15C to +27C) Ambient Air (Recommended)
Temperature Storage	+5F to +90F (-15C to +32C) Ambient Air

\* THX is a registered trademark of THX, Ltd.

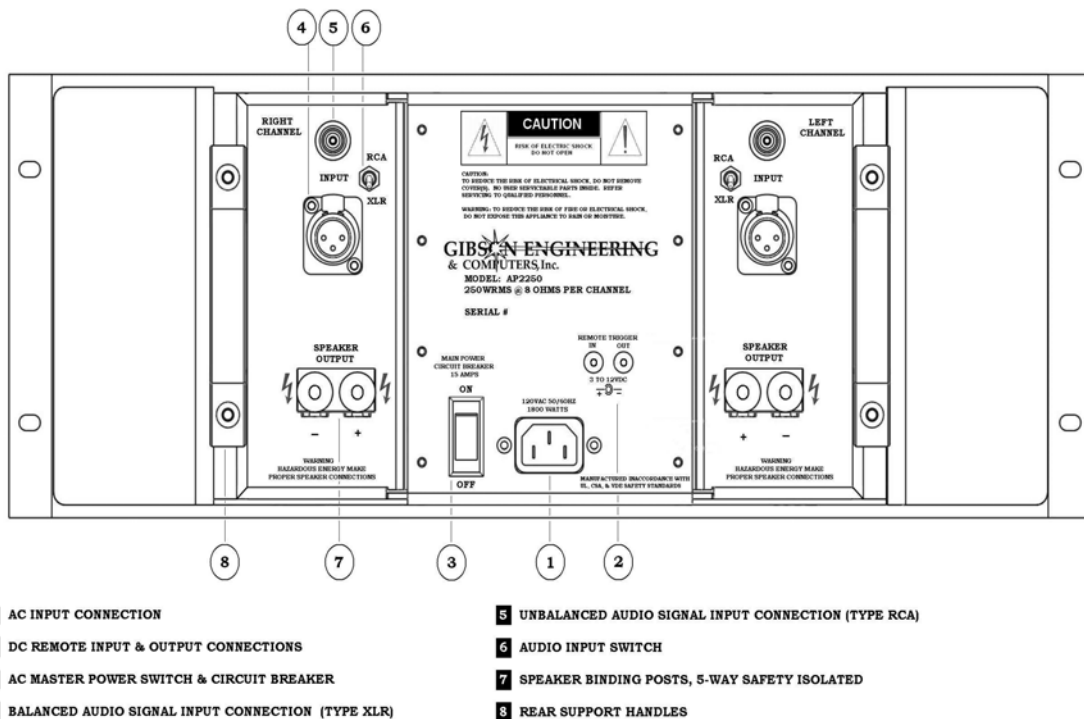
## MANUFACTURES INFORMATION

Contact information is as follows:

Corporate Office:  
 Gibson Engineering & Computers, Inc.  
 3575 S. West Temple, Suite 6  
 Salt Lake City, UT 84115  
 USA

Phone 801.261.8181  
 Fax 801.261.1095  
 WEB www.gibsoneng.com

For Product Support Information, please refer our website for online resources. If you need additional assistance or cannot access our website, please contact our corporate office.  
 Copyright© 2017-2020 Gibson Engineering & Computers, Inc.



**PR-97A-01053-00**