

acurus  
Accuracy from the U.S.



acurus  
Power Amplifier  
AZ50

Since the days of Thomas Edison, America has been known as the home of sound reproduction and high fidelity. When knowledgeable audiophiles around the world want to acquire the finest in audio, they purchase American made components. These handmade components cost several times the price of mass produced audio equipment.

### **HANDCRAFTED AT MASS PRODUCED PRICES**

Now, with Acurus, America introduces hand-crafted, fully discrete audio components for the price of mass produced equipment. With its high level of fit and finish, along with its accuracy of performance, Acurus has become internationally recognized as the standard by which to judge all components in the price range. The Acurus A250 is an amplifier of remarkable power and refinement. The following will explain how we achieve these exceptional results with exceptional value.

### **INHERENTLY ACCURATE CIRCUITRY**

The Acurus A250 utilizes a completely symmetrical circuit topology, thereby providing for identical amplification of both the positive and negative portions of the audio waveform. Because of the inherently low noise and distortion of this circuit, less signal correction is required to maintain signal purity.

### **FULLY DISCRETE**

The input and driver stage of the Acurus is fully discrete and operates in class A, using absolutely no integrated circuits. Due to the inherent noise and distortion of integrated circuits, large

amounts of signal correction are required to get them to operate. That is why we have eliminated IC's from the circuit.

### **LOW IMPEDANCE CAPABILITY**

The class A/B output stage of the A250 will produce an output of over 250 watts per channel. To lower costs, many other amplifiers use mosfet output devices. However, mosfets do not allow for the continuous power into low impedance loads that many better speakers require. It is for this reason that among the world's most expensive amplifiers, virtually all use bipolar output devices capable of continuous operation into 2 and 1 ohm loads. The Acurus A250's output stage is a bipolar design and is capable of continuous power into low impedance loads.

### **SUPERIOR BUILD QUALITY**

The sound quality of any audio component is determined by the circuit design, the circuit board layout and the choice of the components used. The A250's circuit board is made of glass epoxy, the same material utilized in medical and military equipment. We know of no other 250 watt amplifier in the same price category that uses glass epoxy circuit boards. Our competitors use circuit boards made from paper, even though they may give them a green color and fancy names to hide the fact.

### **TIGHT TOLERANCE COMPONENTS**

The component parts soldered into the circuit board are of very tight tolerance. This achieves excellent sound quality, unit to unit consistency

and reliability. Resistors are 1% metal film type, and metalized polypropylene capacitors are used. In addition, transistors are matched for Beta characteristics to assure operational compatibility.

### **HIGH VOLTAGE TOROIDAL TRANSFORMER**

The heart of the A250's power supply is the high-voltage 1,000 VA toroidal transformer. This custom made transformer is specifically engineered for nominal 8 to 4 ohm speaker loads. However, because of its design, it is capable of delivering continuous power to speakers that dip well below 4 ohms at various frequencies.

### **CONTINUOUS POWER**

The ability to supply continuous power, as opposed to transient power, is crucial for proper sound reproduction. Transient power, whether measured as peak amperage, current or wattage, is measured in milliseconds. Bass notes are of long duration, and therefore require continuous power for reproduction.

### **OVER 6 SQ. FEET OF HEAT SINK**

To maintain cool operation at high power, the A250 has over 6 square feet of aluminum heat sinking. This efficient use of aluminum allows for high power from a chassis of aesthetically pleasing dimensions. The large heat sink area eliminates the need for a fan. This insures quiet and dust free operation.

# **A250**

## **Power Amplifier**

### **SPECIFICATIONS**

**Rated Power:**  
250 watts per channel continuous,  
both channels driven into 8 Ohms  
20 Hz to 20,000 Hz at no more than  
0.06% THD

350 watts per channel continuous,  
both channels driven into 4 Ohms  
20 Hz to 20,000 Hz

**Input Impedance:**  
20k Ohms

**Input Sensitivity:**  
1.2 volts for full output

**Signal to Noise Ratio:**  
110dB A Weighted

**Dimensions:**  
17" wide  
5" high  
12" deep

19" front panel optional

Weight: 35 lbs.

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