

CLASS-A STEREO POWER AMPLIFIER

A - 75

Pure Class A stereo power amplifier with outstanding S/N ratio and very high damping factor
 Rated for 60 watts into 8 ohms and 480 watts into 1 ohm
 Power MOS-FETs in 10-parallel push-pull configuration
 Instrumentation amplifier principle
 All signal paths realized with discrete semiconductor components
 Balanced Remote Sensing principle
 MCS+ circuit topology
 Current feedback amplification principle
 Digital power value readout and bar graph voltage indication
 Support for bi-amping and bridged mode





A New Age Begins — With a Supreme Pure Class A Stereo Power Amplifier.

Instrumentation amplifier topology using discrete semiconductors realizes ideal gain allocation. Balanced Remote Sensing optimizes efficiency of negative feedback. 10-parallel push-pull configuration in power amplification stage. The overall result is outstanding S/N ratio and amazingly high damping factor. Furthermore, constant-voltage drive handles even drastic speaker impedance fluctuations with ease. Power MOS-FETs and other carefully selected components and materials make this Pure Class A Stereo Power Amplifier a sheer delight to experience.

Technology development ahead of the curve

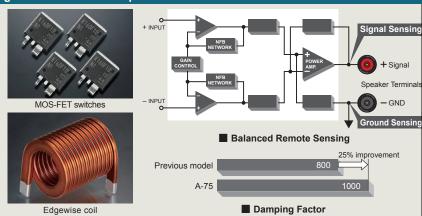
The A-75 uses a balanced instrumentation amplifier circuit configuration throughout all amplification stages, minimizing susceptibility to noise and ensuring outstanding characteristics. The signal input

stage is configured with discrete semiconductors as a push-pull circuit. This makes it possible to allocate a high gain of 22 dB (factor of approx. 12.6) to this section and conversely keep the gain of the power amplification section to a low 6 dB (approx. x2.0). As a result, even large signal amplitudes are conveyed accurately from the signal input stage to the power amplification stage, and noise components processed in the amplification stage are kept low. Compared to the previous model, this results in a noise reduction of 11%. S/N ratio is rated at an astonishing 122 dB (at max gain setting), which manifests itself in superb sonic clarity.

High S/N ratio results in sparkling clarity Signal input section 19.5 μV (S/N ratio: 121 dB) Previous model 17.4 μV (S/N ratio: 122 dB) 1% lower Instrumentation amplifier principle Output noise

High damping factor realizes ideal speaker drive

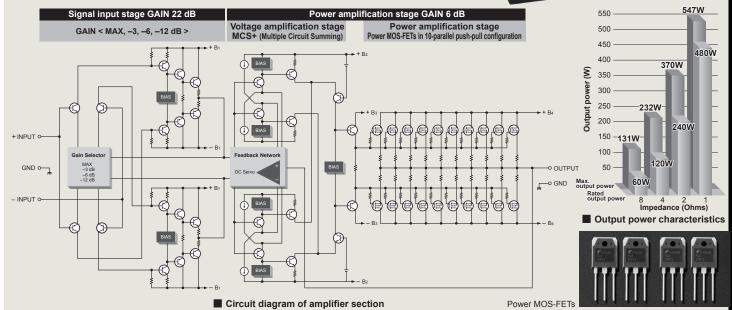
To correctly track the dynamic changes in loudspeaker impedance and drive the speakers with ideal characteristics, the power amplifier output impedance needs to be kept as low as possible, which in turn means an increase in the damping factor. To achieve this aim, the A-75 not only positions the negative feedback sensing point close to the speaker terminals, it also obtains sensing information from the ground line at the same time. This method is called Balanced Remote Sensing. The aim is to minimize output impedance and therefore achieve a significant increase of the damping factor. Furthermore, ten power MOS-FETs with excellent current capacity are used in a parallel configuration, and MOS-FET switches that eliminate all mechanical contacts guarantee outstanding long-term reliability. The edgewise coil with large cross-section area, Hall element for current detection, and many other sophisticated features further contribute to reduced output impedance. The end result is a damping factor rating of 1,000 which represents a 25% improvement over the previous model



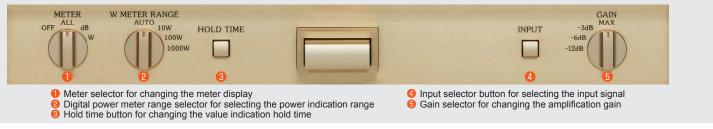
Output power characteristics suitable for constant voltage drive

A massive toroidal power transformer and large filtering capacitors (100,000 $\mu\text{F}~x$ 2) in the power supply ensure that plenty of power is available for handling high amplitude input signals, and large heat sinks efficiently dissipate any excess thermal energy. As a result, the power amplification stage is rated for a continuous 60 watts into 8 ohms, 120 watts into 4 ohms, 240 watts into 2 ohms and 480 watts into 1 ohm (music signals). This linear power progression demonstrates that constant voltage drive has been successfully realized. The maximum output rating is 131 watts into 8 ohms, 232 watts into 4 ohms, 370 watts into 2 ohms and 547 watts into 1 ohm (music signals). Although a Pure Class A Stereo Power Amplifier, the A-75 can easily drive even large and demanding speakers

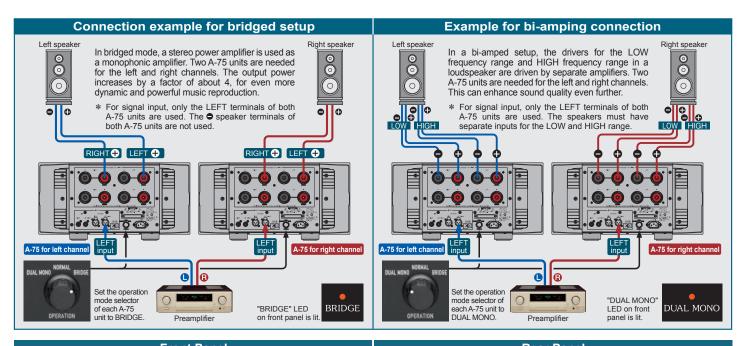




Functionality - Convenience that makes sense

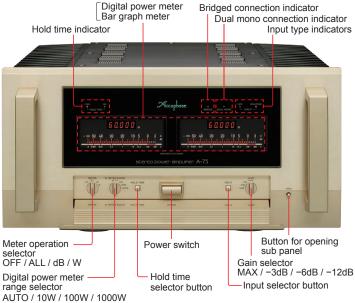


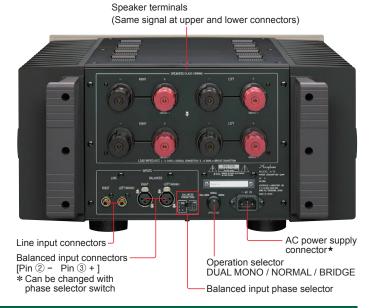




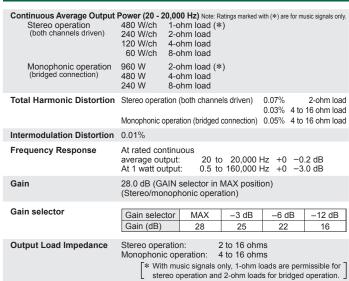


Rear Panel





A extstyle -75~ GUARANTEED SPECIFICATIONS $\,$ [Guaranteed specifications are measured according to EIA standard RS-490.]



Damping Factor	1000	
Input Sensitivity (with 8-ohm load)	0.11 V for Monophonic operation 1.74 V for	or rated continuous average output or 1 watt output or rated continuous average output or 1 watt output
Input Impedance	Balanced: 40 kilohms, Line (unbalanced): 20 kilohms	
S/N ratio (A-weighted, with input shorted)	122 dB GAIN selector in MAX position 128 dB GAIN selector in −12 dB position At rated continuous average output	
Output Level Meters	Disp AUT Bar graph meter Rep valu	cates output power (W) with 5 digits olay range switchable TO/10W/100W/1000W oresents output voltage te (dB) using 38 points econd / infinite (selectable)
Power requirements	120 V, 220 V, 230 V AC (voltage as indicated on rear panel), 50/60 Hz $$	
Power Consumption	260 watts idle 520 watts in accordance with IEC 60065	
Maximum Dimensions	Width 465 mm (18.31") Height 238 mm (9.37") Depth 515 mm (20.28")	
Mass	43.9 kg (96.8 lbs) net 54.0 kg (119.0 lbs) in shipping carton	

- This product is available in versions for 120/220/230 V AC. Make sure that the voltage shown on the rear panel matches the AC line voltage in your area.
- The 230 V version has an Eco Mode that switches power off after 120 minutes of inactivity.

 The shape of the AC inlet and plug of the supplied power cord depends on the voltage rating and destination country.

Supplied Accessory AC power cord

