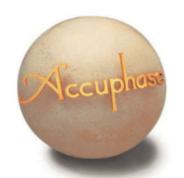


### CLASS-A STEREO POWER AMPLIFIER

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





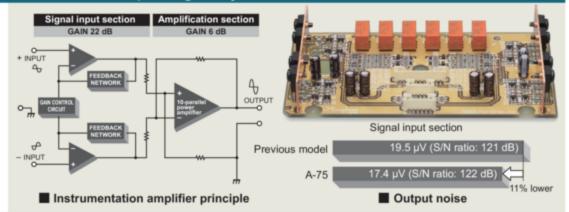
# A New Age Begins — With a Supreme Pure Class A Stereo Power Amplifier.

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

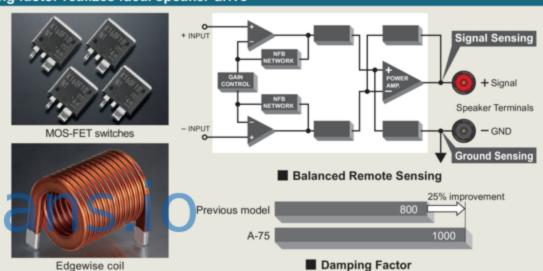
#### High S/N ratio results in sparkling clarity

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 damping factor realizes ideal speaker drive

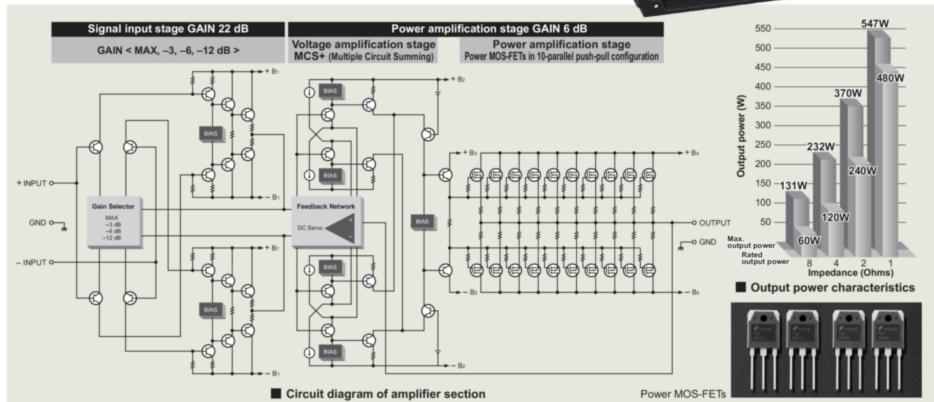
To correctly track the dynamic changes in loudspeaker impedance and drive the speakers with ideal characteristics, the power amplifier output impedance needs to be kept as low as possible, which in turn means an increase in the damping factor. To achieve this aim, the A-75 not only positions the negative 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  $\mu F$  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.

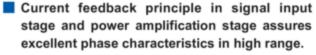




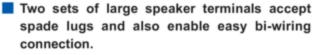
### Functionality - Convenience that makes sense



### Advanced Features



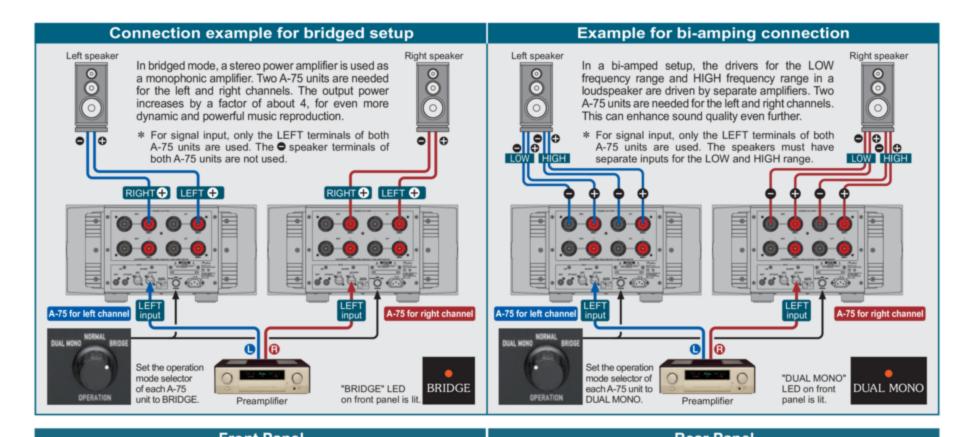
- MCS+ topology improves S/N ratio and THD characteristics in voltage amplification stage.
- Printed circuit board of power amplification stage made from glass cloth fluorocarbon resin.
- Digital power meter showing output power levels and bar graph meter showing output voltage with indication range to -50 dB, both with on/off switching capability.
- Speaker output short-circuit monitoring function ensures complete operation safety.



Operation mode switch supports bi-amping and bridged connection.

4-stage gain selector.Phase selector for balanced inputs.







#### GUARANTEED SPECIFICATIONS [Guaranteed specifications are measured according to EIA standard RS-490.] Continuous Average Output Power (20 - 20,000 Hz) Note: Ratings marked with (\*) are for music signals only. 480 W/ch Stereo operation 1-ohm load (\*) (both channels driven) 240 W/ch 2-ohm load 120 W/ch 4-ohm load 60 W/ch 8-ohm load 960 W Monophonic operation 2-ohm load (\*) (bridged connection) 480 W 4-ohm load 240 W 8-ohm load Total Harmonic Distortion Stereo operation (both channels driven) 0.07% 2-ohm load 0.03% 4 to 16 ohm load Monophonic operation (bridged connection) 0.05% 4 to 16 ohm load Intermodulation Distortion 0.01% Frequency Response At rated continuous average output: 20 to 20,000 Hz +0 -0.2 dB 0.5 to 160,000 Hz +0 -3.0 dB At 1 watt output: Gain 28.0 dB (GAIN selector in MAX position) (Stereo/monophonic operation) Gain selector Gain selector MAX -3 dB -6 dB -12 dB Gain (dB) 25 16 Stereo operation: **Output Load Impedance** 2 to 16 ohms Monophonic operation: 4 to 16 ohms With music signals only, 1-ohm loads are permissible for stereo operation and 2-ohm loads for bridged operation. Remarks

Damping Factor	1000
Input Sensitivity (with 8-ohm load)	Stereo operation 0.87 V for rated continuous average output 0.11 V for 1 watt output  Monophonic operation 1.74 V for rated continuous average output 0.11 V for 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	Digital power meter Indicates output power (W) with 5 digits Display range switchable AUTO/10W/100W/1000W  Bar graph meter Represents output voltage value (dB) using 38 points  Hold time 1 second / infinite (selectable)  * With indication off switch
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

