

CLASS-A MONOPHONIC POWER AMPLIFIER

A-200

Pure Class A operation delivers 100 watts of quality power into 8 ohms
Two totally identical power amplifier units driven in parallel
20-parallel push-pull arrangement of MOS-FET devices in output stage delivers linear high power progression to ultra-low 1-ohm impedance
Input section configured as double instrumentation amplifier
Double MCS+ circuit and current feedback topology in amplification stage
Support for bridged use of two A-200 units with even higher output power
Strong power supply with massive high-efficiency toroidal transformer and large filtering capacitors





Eminently capable pure Class A monophonic power amplifier with power MOS-FET technology – Ultra-low-noise double instrumentation amplifier configuration enables fully balanced signal transmission, augmented by double MCS+ circuit and current feedback topology. Experience astounding S/N ratio and impeccable sound quality on a level that has to be heard to be believed. A hefty power supply and 20 power MOS-FETs arranged in a parallel push-pull configuration deliver 1,000 watts (music signal) into an ultra-low 1-ohm load. Output stage with further lowered impedance results in a damping factor of 1,000.

Accuphase was founded in 1972 and astonished the audio world right from the start, with its separate amplifier combo, the C-200 and P-300 released in the following year. Ever since, the company has steadfastly pursued the path of true high-end audio, making uncompromising quality and exquisite sound reproduction its hallmark. Sophisticated technology provides the basis for creating products of true value. At Accuphase, innovation goes hand in hand with reliability, imbuing each product with the mark of greatness. The long succession of reference products crafted by Accuphase has found enthusiastic reception among audiophiles both in Japan and overseas. The A-200 encompasses Accuphase power amplifier know-how to the fullest. It is destined to become another milestone, taking the art of audio to the next level.

In order to realize ideal speaker drive capability, the A-200 employs a structural design that exceeds even the M-6000. Two completely separate power amplifier units, each with its own dedicated heat sink on either side of the chassis, are driven in parallel. This completely parallel configuration allows a significant increase in output current and results in a power amplifier with extremely low output impedance. Along with the choice of only the finest materials and parts, as well as advanced circuit and pattern technology, this has made possible an amazing damping factor value in excess of 1,000. A pure class A amplifier consumes a considerable amount of power and therefore produces thermal energy at all times, which means that the circuitry has to be designed so as to ensure problem-free operation in any environment. The power MOS-FETs used in the A-200 are renowned for their excellent high-frequency characteristics and high thermal stability. This allows finely honed control to maintain the temperature balance between two power amplifier units, achieving stable operation even when the load and operating conditions change dramatically.

Another outstanding characteristic of the A-200 is its enormously improved S/N ratio. By adopting the advanced instrumentation amplifier principle for the input stage in a double configuration, using only discrete electronic components instead of ICs, and fine-tuning the gain complement with the following stage, simply amazing S/N ratings were achieved: 126 dB at the maximum gain setting and 132 dB with gain set to -12 dB. These represent ultimate values even in the formidable Accuphase lineup.

- 20-parallel push-pull arrangement of power MOS-FETs delivers linear power progression: 800 watts (music signal) into 1 ohm, 400 watts into 2 ohms, 200 watts into 4 ohms, or 100 watts into 8 ohms.
- Strong power supply with massive high-efficiency toroidal transformer and two large 100,000 μF filtering capacitors.
- Printed circuit boards made from glass cloth fluorocarbon resin with low dielectric constant and minimum loss.
- Output level indication switchable between 5-digit numeric readout and 40-point LED bar graph.
 - Meter operation and illumination on/off switch
 - Digital power meter showing true power values, based on output current detected by a Hall element
 Switchable peak hold time: 1 second or infinite
- 4-stage gain selector (MAX, -3 dB, -6 dB, -12 dB) also minimizes residual noise.
- Two sets of oversize speaker terminals accept Y lugs and allow bi-wiring.
- Fully balanced input stage shuts out external noise interference.
- Mode selector allows use of two A-200 units for bi-amping or bridged operation. Bridging enables upgrade to monophonic amplifier with even higher



Hall elements Gain control selector



Large gold-plated speaker terminal cut from solid brass

power, delivering 1,600 watts into 2 ohms (music signal), 800 watts into 4 ohms, or 400 watts into 8 ohms.

Semiconductor (MOS-FET) switch used for protection circuitry prevents contact problems and ensures long-term reliability. Eliminating mechanical contacts from the signal path further enhances sound quality.







Mode selector

Super-heavy-gauge edgewise co

Input terminals and ultra-low-noise input circuitry



"The Ultimate Harmony



of Craft and Beauty"

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The A-200 is built to excel in every respect. Only the finest parts and materials, advanced circuit topology, and impressive looks come together behind the massive gold-colored faceplate. External heat sinks on both sides effectively dissipate thermal energy and exemplify the solid build quality. Exuding a warm atmosphere, the A-200 combines style and texture, grace and power.



Latest Instrumentation Amplifier Topology and Further Advanced Double MCS+ Circuit

Fully balanced signal paths realized double instrumentation amplifier configuration

The A-200 uses the instrumentation amplifier principle in a dual configuration. This allows all signal paths from the inputs to the power amp stage to be fully balanced. The result is excellent CMRR (common mode rejection ratio), minimal distortion, as well as superior performance in all other vital aspects as well. Noise and other extraneous influences are virtually shut out, and the use of latest technology and fully discrete circuitry contributes to amazingly high S/N ratio. Even the most minute details are no longer buried in noise and emerge with utter clarity.

Double MCS+ in amplifier stage further improves S/N ratio

The input stage of the amplifier section features another Accuphase innovation. Double MCS+ makes ample use of cascode drive circuits and dedicates each component to a clearly defined task, thereby ensuring stable performance. Four circuits for amplifying the input signal are connected in parallel to keep distortion to a minimum and to further enhance S/N ratio and other parameters. The resulting level of sound quality is simply stunning.

Current feedback assures excellent phase characteristics in high range

As shown in the illustration, the A-200 uses the output signal current rather than voltage for feedback. Since the impedance at the current feedback point is very low, there is almost no phase shift. A minimal amount of NFB therefore results in maximum improvement of circuit parameters.



Power amplifier assembly Power amplifier assembly with 10-parallel

push-pull power MOS-FET arrangement for output stage mounted directly to large diecast aluminum heat sink, also comprising MCS+

circuitry and current feedback amplifier. Two completely identical circuits are used.



Double Instrumentation Amplifier Principle

