

CLASS-A STEREO POWER AMPLIFIER

A-36

● Pure Class A operation delivers quality power: 30 watts x 2 into 8 ohms ● Power MOS-FET output stage features 3-parallel push-pull configuration ● Instrumentation amplifier principle used in input stage ● Amplification stage implements further evolved MCS+ topology ● Current feedback principle combines stable operation with outstanding sound quality ● Bridged connection mode allows upgrading to monophonic amplifier ● Strong power supply with massive high-efficiency transformer and large filtering capacitors ● 4-stage gain control





Redefining Essential Excellence — Impressive Baseline Pure Class A Stereo Power Amplifier. Input stage features fully balanced signal paths realized with ultra low noise instrumentation amplifier topology. MCS+ design and current feedback in amplification circuitry deliver outstanding S/N ratio and other performance parameters for improved sound quality. Robust power supply and power MOS-FET devices in triple-parallel push-pull configuration sustain power output of 150 watts per channel (music signals) down to impedances as low as 1 ohm. Output stage with further lowered impedance realizes a damping factor of 400.

Pure Class A amplifiers from Accuphase have a long and distinguished tradition and have attained widely acclaimed levels of performance combined with reliability and impeccable sound quality. Audiophiles the world over continue to hold them in high esteem. The Pure Class A Monophonic Power Amplifier A-200 introduced on the occasion of the company's 40th anniversary, and the high-end Pure Class A Stereo Power Amplifier A-70 opened up new realms of sonic excellence and have become legendary as reference audio devices. The new A-36 inherits many of the outstanding design technology features developed for the higher-end models. It redefines the baseline for pure class A power amplifiers and represents the same unwavering attention to detail and dedication to sound quality for which Accuphase is iustly famous.

Latest instrumentation amplifier topology allows the realization of fully balanced signal paths, while the MCS+ circuitry combined with current feedback topology and carefully selected high-grade materials assure further enhanced performance and sound quality. In the output stage, power MOS-FETs renowned for their excellent frequency response, sonic performance, and superior reliability are used in a triple parallel configuration and driven in pure class A. This is sustained by the strong power supply featuring a massive transformer and two large 47,000 µF filtering capacitors. Output power in each channel is rated for an impressive 150 watts into 1 ohm, 120 watts into 2 ohms, 60 watts into 4 ohms, and 30 watts into 8 ohms. Even speakers with ultralow impedance or drastic fluctuations in impedance curve can be driven reliably by this impressive amplifier. In the output circuitry, MOS-FET switches are used in place of relays, to eliminate mechanical contacts and improve long-term reliability. Top-grade materials, sophisticated circuit pattern technology, and various other measures result in low impedance and allow the realization of a damping factor of 400, which represents a two-fold improvement over the A-35. The well-proven analog power meters are equipped with a sensitivity selector for easy observation of low power levels, and a peak hold function has been newly added.

- 3-parallel push-pull arrangement of power MOS-FETs delivers 150 watts (music signal) into 1 ohm, 120 watts into 2 ohms, 60 watts into 4 ohms, or 30 watts into 8 ohms.
- Strong power supply with large high-efficiency transformer and two 47,000 µF filtering capacitors.
- Instrumentation amplifier principle for power amplifier input stage allows fully balanced signal transmission. MCS+ topology further improves S/N ratio.
- Bridging allows upgrade to monophonic amplifier with even higher power, delivering 300 watts into 2 ohms (music signal), 240 watts into 4 ohms, or 120 watts into 8 ohms.
- Operation mode switch supports dual mono operation and allows bi-amping connection.
- Damping factor doubled to 400 contributes to enhanced sonic definition.
- Analog power meters. Meter operation/light on/off switch, peak hold/normal operation selector, sensitivity selector (0 dB, -20 dB).
- 4-stage gain selector (MAX, -3 dB, -6 dB, -12 dB) also minimizes residual noise.
- Semiconductor (MOS-FET) switches used for protection circuitry.

Prevent contact problems and ensure long-term reliability. Eliminating mechanical contacts from signal path also further enhances sound quality.

Balanced input phase selector switch. If balanced input of preamplifier uses pin 2 positive configuration, this switch can be used for proper matching.



NORMAL

OFF

ower transformer

INPUT

METER

HOLD

Meter controls

Input selector button Operation

Filtering capacitors

OPERATION

GAIN

MAX -3dB

ANCED

CONNECTION

Phace coloct

-6dB

Gain control se

-12dB

Two sets of large speaker terminals (A / B) also accept Y lugs.





Instrumentation amplifier configuration and further refined MCS+ topology

Amplification stage features instrumentation amplifier topology for fully balanced signal paths

The instrumentation amplifier principle ensures that all signal paths from the inputs to the power amp stage are fully balanced. This not only results in excellent CMRR (Common Mode Rejection Ratio) and minimal distortion, it also makes the amplifier highly resistant against external noise and other external influences. The result is a drastic improvement in operation stability and reliability.

Signal input stage Power amplifier stage

Further refined MCS+ topology for even lower noise

Accuphase's original MCS (Multiple Circuit Summing) principle uses a number of identical circuits connected in parallel to achieve superior performance characteristics.

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MCS+ is a further refined version of this approach. By extending parallel operation to the class-A drive stage of the current/voltage converter, the noise floor has been lowered further.



Current feedback principle assures excellent phase characteristics in high range

As shown in the illustration, the A-36 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.

TRANS-IMPEDANCE AMPLIFIER



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Front Panel



Remarks

- 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.
- *** 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



