

A-70 is a succession model of A-65 and the flag ship class-A stereo power amplifier of Accuphase. We've already launched the flag ship class-A monophonic power amplifier A-200 as 40 years anniversary model.

Technologies of A-200 were diverted to A-70. In short, A-70 is stereo version of A-200.



The size of A-70 is as same as the former model A-65. However A-70 is 1.3kg heavier than A-65 as chassis structure is reinforced.



The chassis structure of A-70 was reinforced by 20mm x 15mm aluminum square bar on the front and back.



A-70 has digital power meters and 32-point LED bar graph indications.

Digital power meter shows true output power without any effect of speaker impedance.

2 pairs per channel of large speaker terminals are equipped.

They are useful for bi-wired connection with loud speakers.



Strong power supply by large Troidal transformer with aluminum heat-radiation fins and 2 pieces of 82,000µF capacitor are installed.



The continuous average output power is 60W into 8 ohm load.

However A-70 has bigger headroom for maximum output power. It is 131W into 8 ohm and 547W into 1 ohm.

A-70 is the super high power amplifier.



A-70 has the lowest noise performance in the 41 years' history of Accuphase stereo power amplifier.

Our first stereo power amplifier P-300 launched in 1973 has 40μ V of noise voltage.

41 years later, A-70 achieves 13µV at last.

This is the half of the former model A-65.



The output noise is reduced by some technologies.

Optimizing gain allocation of 2 amplifier blocks constructed with instrumentation amplifier.

Enhancing gain of balanced input amplifier block from 4 times to 12.6 times.

Output noise voltage is ideally decreased to 33%.



The output noise is also reduced by the discrete configuration amplifier which IC is not installed on signal path.



A-70 has the highest Damping-Factor specification in the 41 years' history of Accuphase stereo power amplifier. DF of P-300 in 1973 was 60.

After 41 years, A-70 achieves 800 of DF.

This is 2 times higher than the former model A-65. This is guaranteed specification. In actuality A-70 has 1,000 of DF.

*Damping-Factor, DF:

A index of speaker driving ability. Higher Damping-Factor amplifier has higher speaker driving ability. DF = 8 ohm / Output-impedance



The Output impedance is decreased by 10 parallel pushpull output stage arrangement of MOS-FET.



Remote-sensing is the technique to lower output impedance of amplifier by the negative feedback with signal sensing from close up the speaker terminals.

Balanced Remote-sensing is the technique to make impedance even lower by GND sensing and the negative feedback of GND level with adding the signal sensing.

Not only Damping-factor is improved but also Total Harmonic Distortion and Intermodulation Distortion get better by Balanced Remote-sensing.



Mechanical relay is the most common for speaker protection. It does not have good reliability and so lower contact resistance either.

A-70 employed MOS-FET switch instead of mechanical relay for speaker protection.

Damping-Factor, reliability and sound quality are improved thanks to MOS-FET switch.

Some other very low resistance components which are chosen for A-70 are large speaker terminal, rectangular wire coil and so on.

Making signal path thick and short attains having low impedance.