

E-470 is a succession model of E-460 and flag ship integrated Class-AB amplifier of Accuphase. Technical high lights of E-470 are ULTRA LOW NOISE and SUPER HIGH DAMPING-FACTOR. They were inherited from our 40 years anniversary model C-3800 and A-200.



The continuous average output power is 180W into 8 ohm load.

However E-470 has bigger headroom for maximum output power. It is 200W into 8 ohm and 290W into 4 ohm.

E-470 is the high-power integrated amplifier.



E-470 is the remarkably low noise amplifier exceeding E-460.

E-470 has $34\mu V$ of actual noise voltage.

This is 63%(-4dB) of the former model E-470.



AAVA in E-470 achieves low noise by paralleled V-I converter in larger two units and low-impedance feedback network on I-V converter.

Thanks to these technologies, noise level at AAVA has been improved by 2.5dB lower than E-460.



E-470 applies Low-impedance feedback network in power amplifier section.

Thanks to this technology, noise level at power amplifier has been improved by 1.5dB lower than E-460.



E-470 achieves 500 of Damping-Factor.

It is 2.5 times higher than the former model E-460 and equal to E-600.

500 of DF is guaranteed spec. In actuality, DF of E-470 is about 700.

*Damping-Factor, DF:

An index of speaker driving ability. Higher Damping-Factor amplifier has higher speaker driving ability.

DF = 8 ohm / Output-impedance



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.

Balanced Remote-sensing was not applied in the former model E-460.



Mechanical relay is the most common for speaker protection as output switch.

However E-470 employs MOSFET switch instead of mechanical relay.

It is because MOSFET switch is more reliable and the contact resistance is much lower.

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

Some other very low resistance components which are chosen for E-470 are large speaker terminal, low resistance wire coil and so on.

Making signal path thick and short attains having low impedance.



E-470 accepts the digital input board DAC-40.

You can see the figure of sampling frequency input into DAC-40 on the front panel display.

Balanced-type input and output are additionally equipped as Pre-Output and Power-Input.