Integrated Stereo Amplifier
E-270

Accuphase Laboratory, Inc.

E-270 is a succession model of E-260.
Technical high-lights of E-270 are ULTRA LOW NOISE and SUPER HIGH DAMPING-FACTOR. They are inherited from our flagship pre-amplifier C-3850 and flagship power-amplifier A-200.

Improvement of power supply

- Increased custom made capacitors
  – 22,000μF x 2 pieces → 30,000μF x 2 pieces

E-260

E-270

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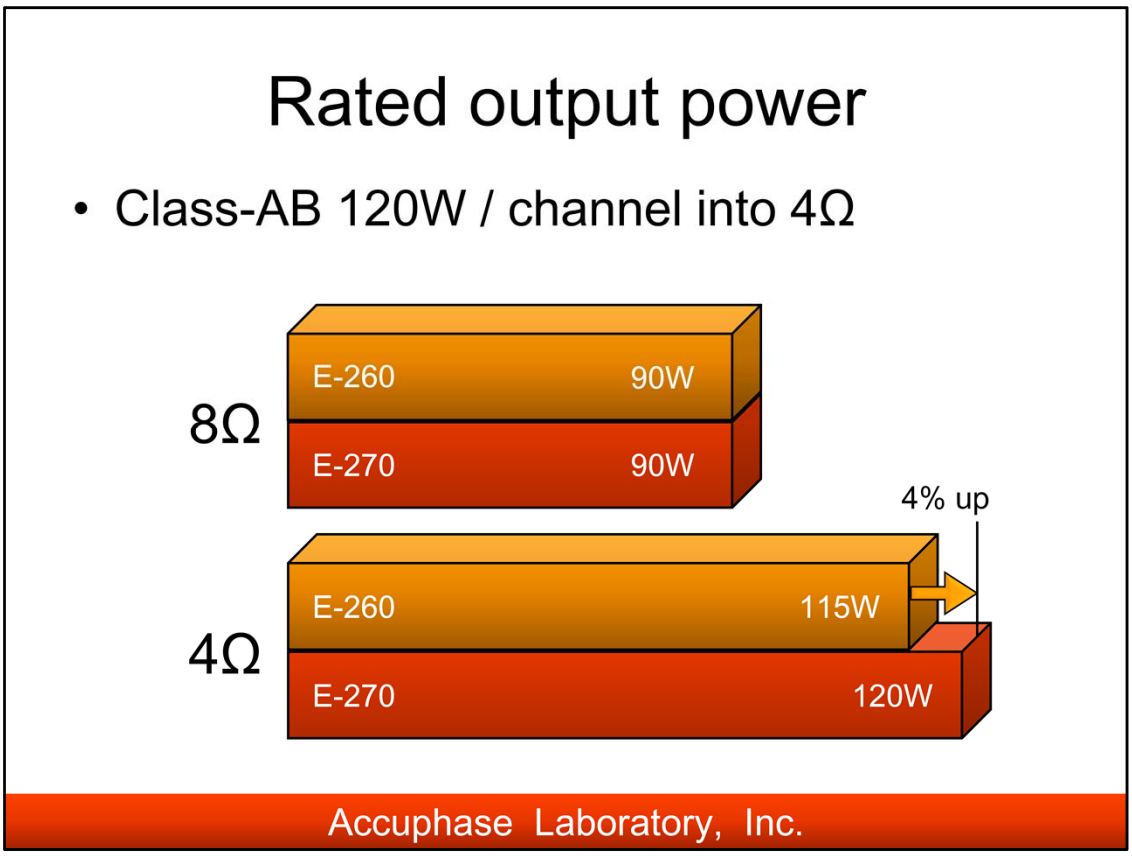
The power supply is reinforced.

The capacity of main capacitors are drastically increased to 30,000uFx2 .

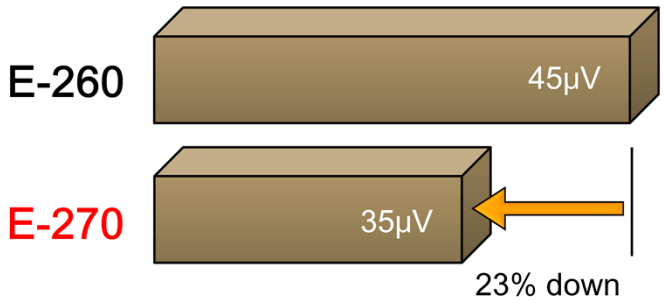


The rated output power is 90W into 8 Ω load and 120W into 4 Ω load.

Especially, the rated output power into 4 Ω load is enhanced 4% from the former model by the improvement of power supply.

Ultra Low Noise

- Lower noise than the former model E-260
  - Actual noise voltage of speaker output: 35μV
    @Volume position: -30dB



Actual output noise voltage

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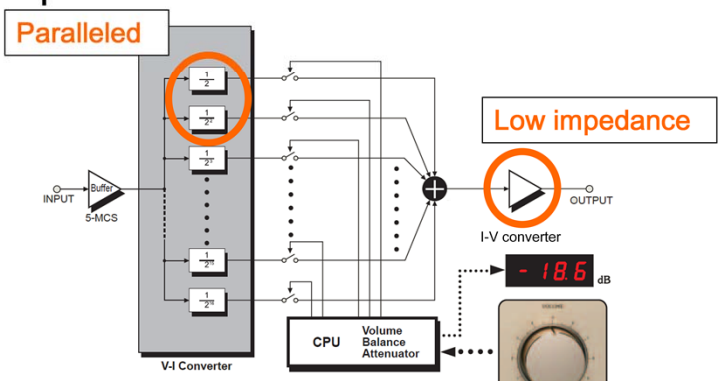
E-270 is the remarkable low noise amplifier exceeding E-260.

E-270 has 35μV of the actual noise voltage.

This is 23% lower(-2dB) than the former model E-260.

Technology for ultra low noise

- AAVA re-designed for low noise
  - Paralleled V-I converter in larger two units
  - Low-impedance feedback network I-V converter



AAVA: Accuphase Analog Vari-gain Amplifier

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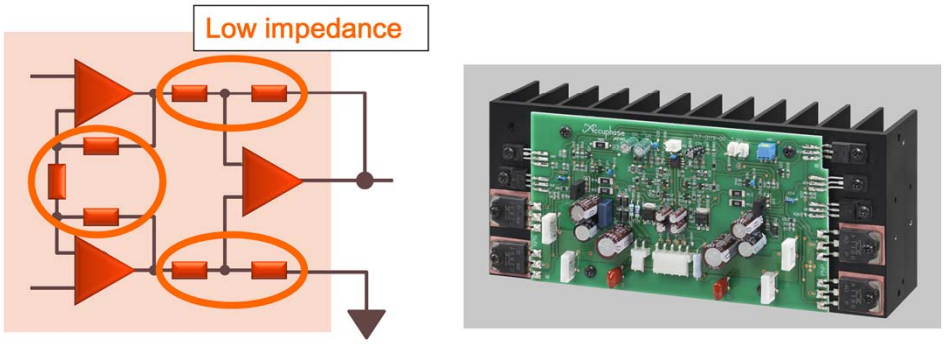
AAVA for E-270 achieves low noise performance by installing a paralleled V-I converter in the higher two units and a low-impedance feedback network on I-V converter.

This circuit architecture is as completely same as E-600.

Technology for ultra low noise

- Re-designed power amplifier for low noise
  – Low-impedance feedback network



Power amplifier block with instrumentation amplifier configuration

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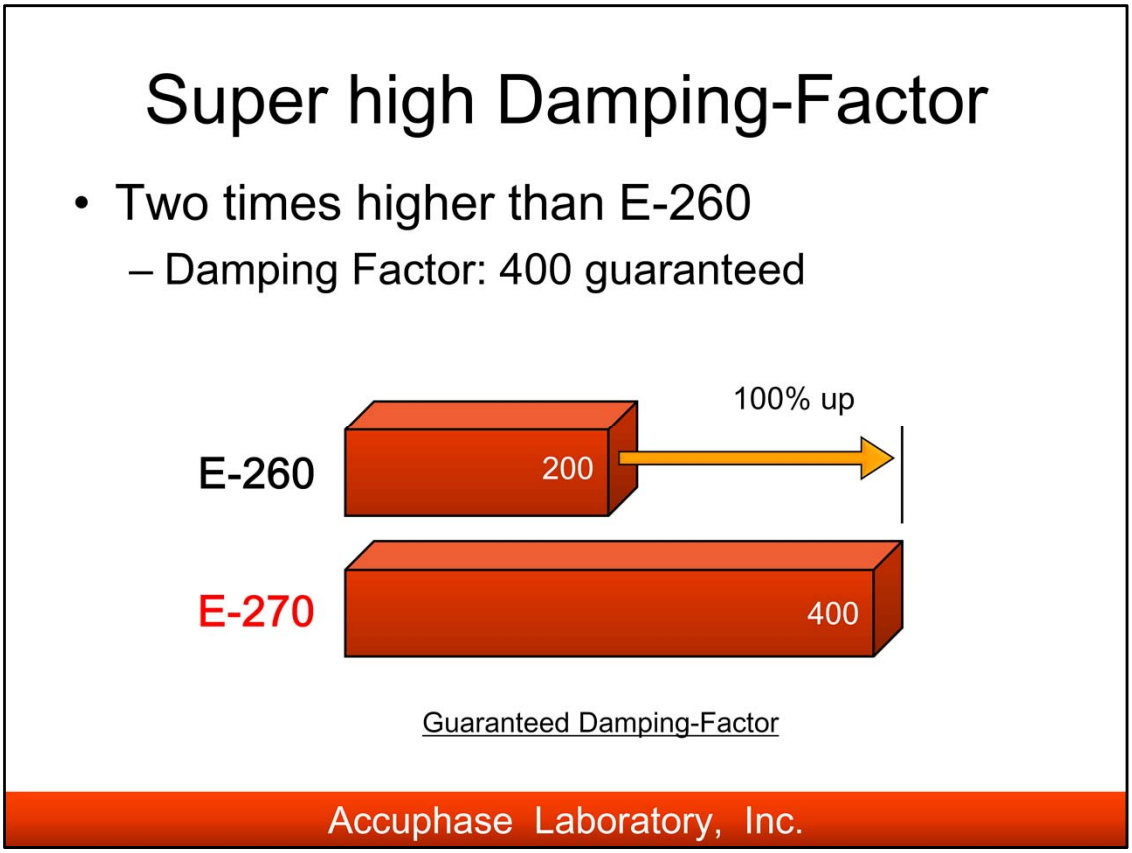
E-270 applies another low-impedance feedback network in power amplifier sections.

By these low noise technologies, the noise level has been improved by 20% lower(-2dB) than E-260.



E-270 achieves 400 of Damping-Factor.

It is two times higher than the former model E-260.

400 of DF is guaranteed spec. In actuality, DF of E-270 is approximately 500.

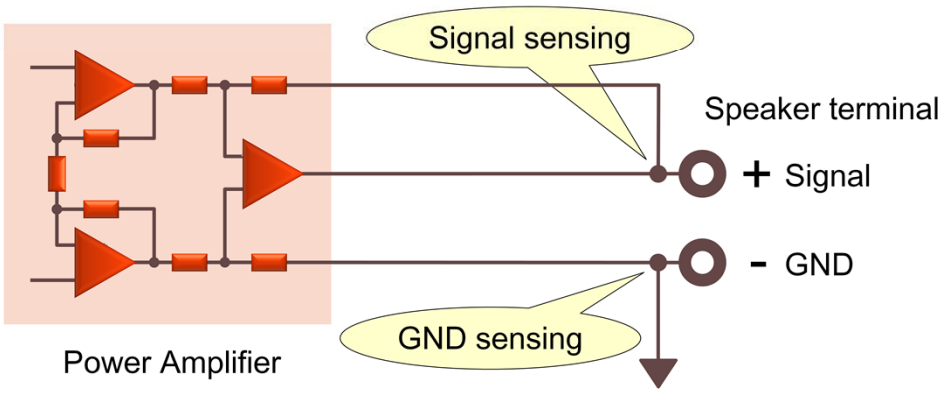
*Damping-Factor, DF:

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

DF = 8 ohm / Output-impedance

Technology for high DF

- Balanced Remote-sensing
  - Feedback from speaker terminal proximity
  - Signal-line and GND-line sensing



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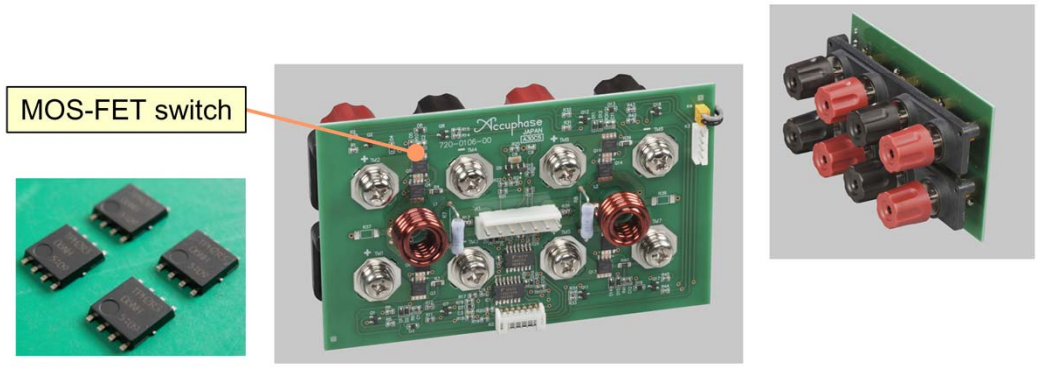
Remote-sensing is the technique to lower output impedance of amplifier by negative feedback with signal sensing from close up speaker terminals.
Balanced Remote-sensing is the technique to make impedance even lower by GND sensing and the negative feedback of GND level with adding the signal sensing.
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-260.

Technology for high DF

- Speaker protection equipped with MOSFET
- Short signal path configuration



On-resistance: 2.6 mΩ

Protection Assembly

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Although a mechanical relay is the most popular component for speaker protection, it does not have high reliability and low contact resistance either.

E-270 applies a MOS-FET switch instead of mechanical relay for speaker protection.

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

By connecting speaker terminals and PC-board directly, signal path can make shorter to attain low impedance.

Further more …

- Ready for the option board DAC-40
  - Sampling frequency on the front display
  - Possible to choose input source manually

Multi function display

Input selector for DAC

- high-quality remote commander

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E-270 accepts the digital input board DAC-40.
You can see the figure of sampling frequency input of DAC-40 on display and can choose any preferred input sources with the selector on front panel.
These are brand-new functions of E-270.
Elegant and high-quality remote commander is also supplied with.