## CLASS-A STEREO POWER AMPLIFIER A-36



Accuphase Laboratory, Inc.

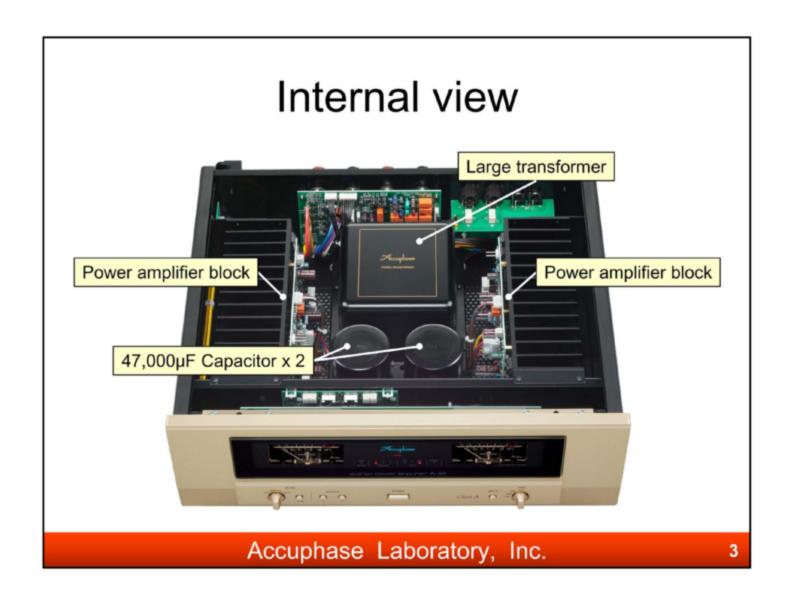
4

A-36 is a succession model of A-35 A-36's big Technology features are "Low noise" and "High Damping-factor". They are inherited outstanding technologies from our 40-years-anniversary model, Class-A monophonic power amplifier A-200.

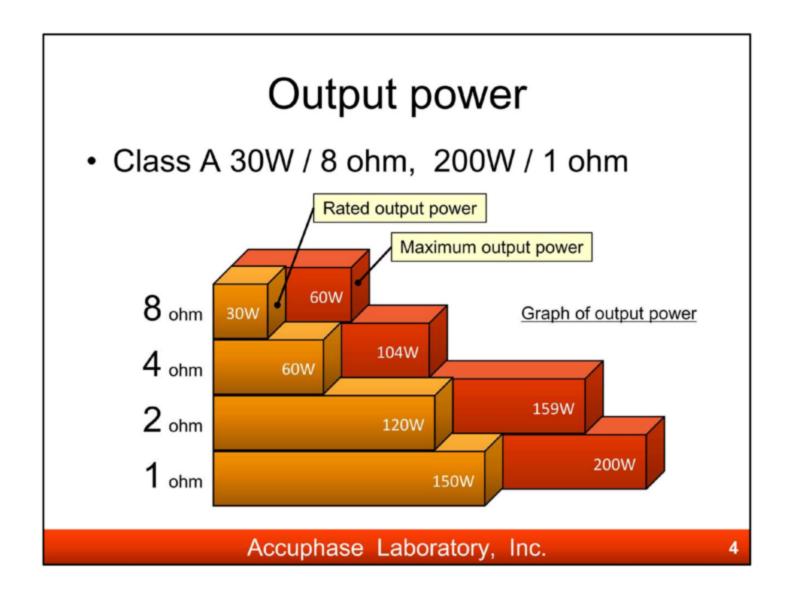


A-36 has 3 additional evolution features from A-35 are as follows.

- 1.Meter hold mode
- 2. Another set of large speaker terminal
- 3. Phase selector for balanced input

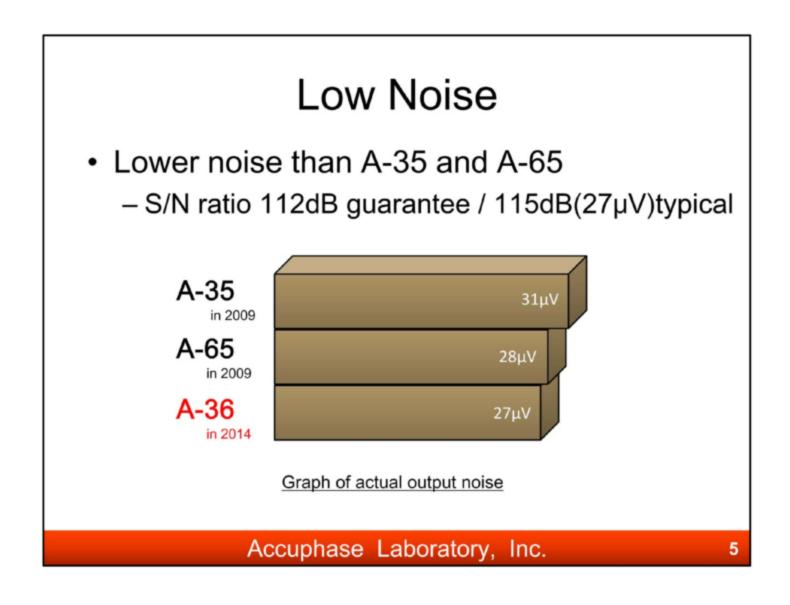


Strong power supply by large transformer and 2 pieces of  $47,\!000\mu F$  capacitor are installed.

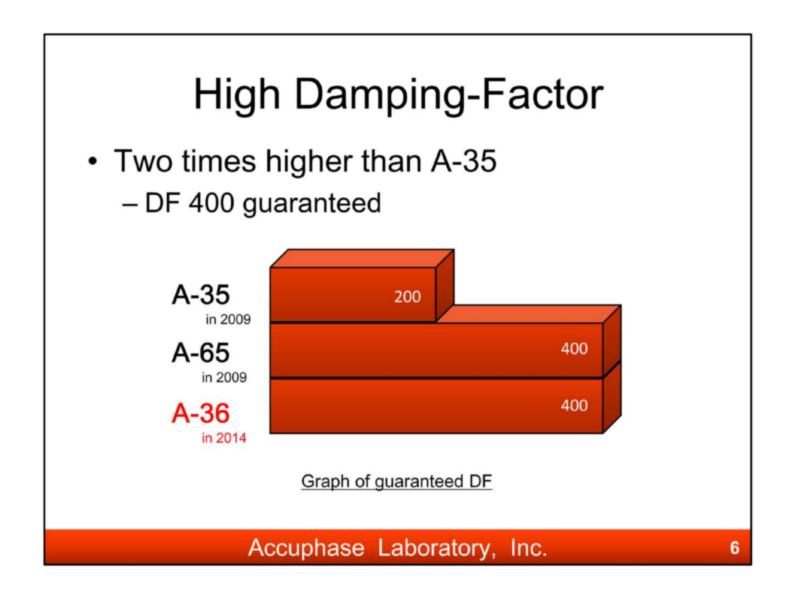


The continuous average output power is 30W into 8 ohm load.

However A-36 has bigger headroom for maximum output power. It is 60W into 8 ohm and 200W into 1 ohm. A-36 is not small output power amplifier.



A-36 is remarkably low noise amplifier exceeding even A-65 not only A-35 in its S/N ratio.



A-36 achieves 400 of Damping-Factor.

It is 2 times higher than the former model A-35 and equal to A-65.

400 of DF is guaranteed spec. In actuality, DF of A-36 is over 600.

## \*Damping-Factor, DF:

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

DF = 8 ohm / Output-impedance

## Technology for high DF

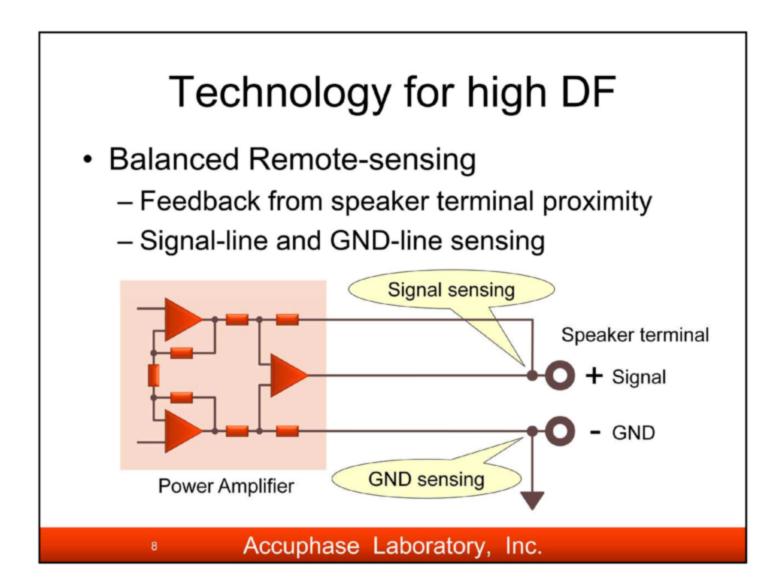
- Low output impedance power amplifier engine
  - MOS-FET 3 parallel push-pull output stage



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7

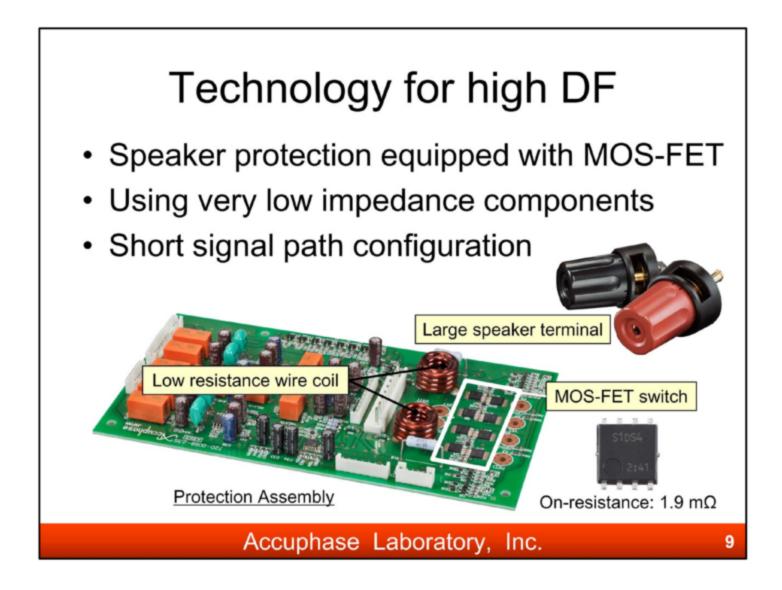
The Output impedance is decreased by 3 parallel pushpull output stage arrangement of MOS-FET.



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. The former model A-35 employed mechanical relay.

A-36 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 impedance/resistance components which are chosen for A-36 are large speaker terminal, low resistance wire coil and so on.

Making signal path thick and short attains having low impedance.