MONOPHONIC POWER AMPLIFIER M-6200



Accuphase Laboratory, Inc.

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M-6200 is a succession model of M-6000 and our flagship of class-AB monophonic power amplifier. We've already launched another flagship class-A monophonic power amplifier A-200 as the 40 year anniversary model.

M-6200 inherits superb technologies from A-200. And it is the newest model of M-6000 series.

Dimensions and Weight

- Same dimensions as the former model M-6000
 - Width 465mm
 - Height 220mm
 - Depth 499mm
- 1.7kg heavier than M-6000
 - Weight 40.2kg net



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The size of M-6200 is as same as the former model M-6000.

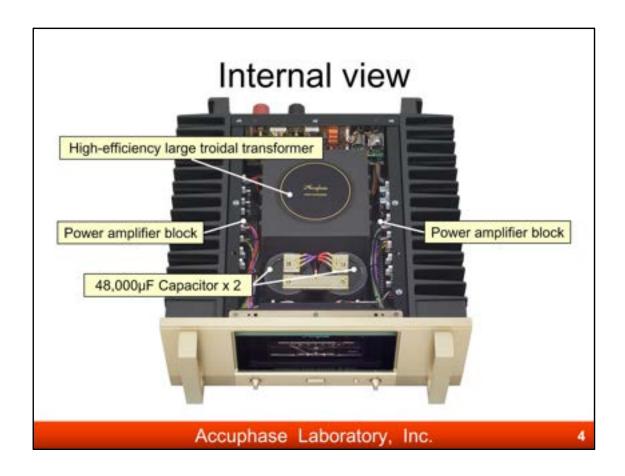
However M-6200 is 1.7kg heavier than M-6000 as internal structure is reinforced. (Power transformer size, number of speaker terminals, rectangular wire coil etc.)



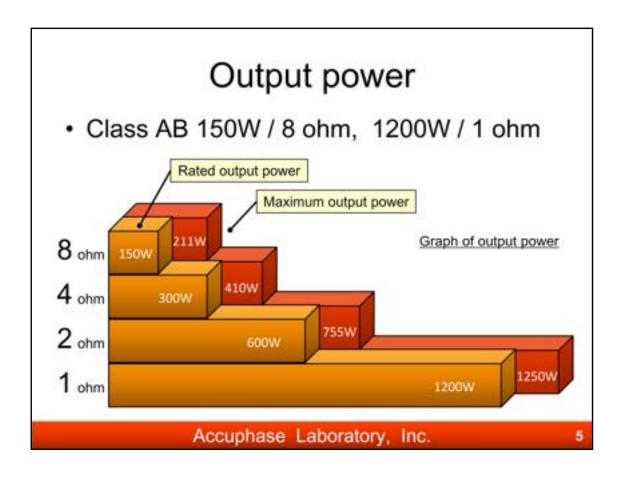
M-6200 has an analog power meter and it has peak-hold and hold time control function.

2 pairs of large speaker terminals are equipped.

They are useful for bi-wiring connection with loud speaker.



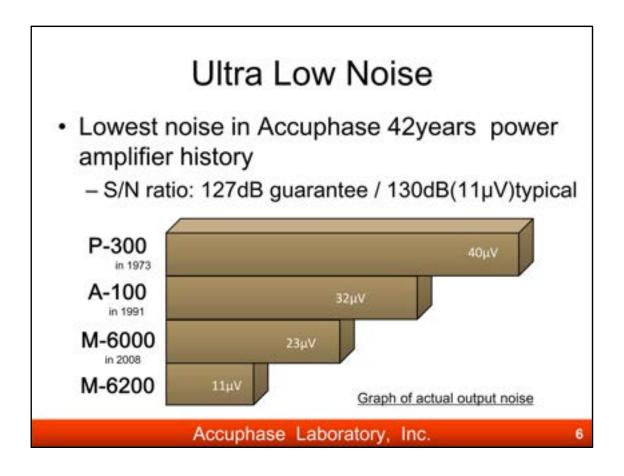
Strong power supply by large Troidal transformer with newly designed heat-radiation fins and a pair of 48,000µF capacitors are installed.



The continuous average output power is 150W into 8 ohm load.

However M-6200 has bigger headroom for maximum output power. It is 211W into 8 ohm and 1250W into 1 ohm.

It means M-6200 is super high power amplifier.



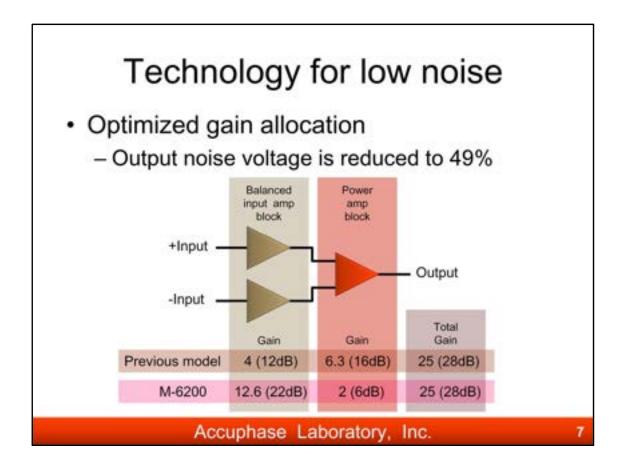
M-6200 has the lowest noise performance in the 42 years' history of Accuphase power amplifier.

Our first stereo power amplifier P-300 launched in 1973

had 40µV of noise voltage.

42 years later, M-6200 achieves 11µV at last.

This is less than half of the former model M-6000.



The output noise is reduced by some technologies. Optimizing gain allocation of 2 amplifier blocks which is constructed with instrumentation amplifier.

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

Output noise voltage is ideally reduced to 49%.



M-6200 has the highest Damping-Factor specification in the 42 years' history of Accuphase power amplifier. DF of P-300 in 1973 was 60.

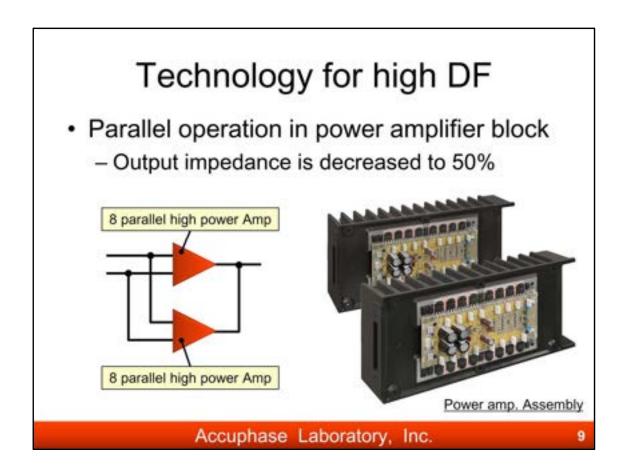
After 42 years, M-6200 achieves 1000 of DF.

This is 2 times higher than the former model M-6000. This is the guaranteed specification. Actually, M-6200 has more than 1,500 of DF.

*Damping-Factor, DF:

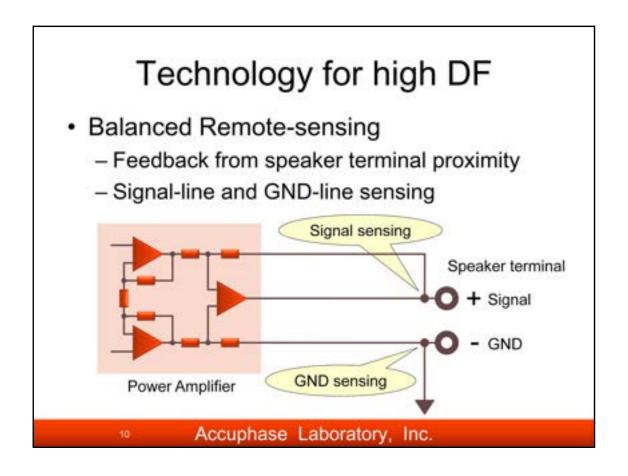
A index of speaker driving ability. Higher Damping-Factor amplifier has higher speaker driving ability.

DF = 8 ohm / Output-impedance



Output impedance is decreased by the multiple connected power amplifiers with 8-parallel push-pull arrangement of high power transistors.

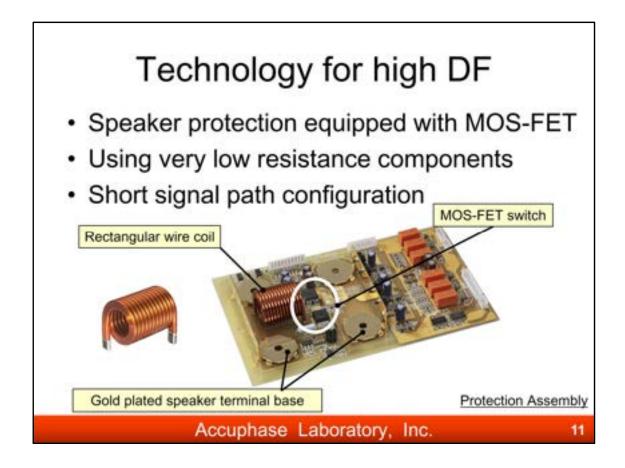
Output impedance is decreased to 50%



Remote-sensing is the technique to obtain lower output impedance of amplifier by 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 but also Total Harmonic Distortion and Intermodulation Distortion are improved by Balanced Remote-sensing.



Mechanical relay is the most popular component for speaker protection. It does not have good reliability and low contact resistance either.

M-6200 uses MOS-FET switch instead of mechanical relay for speaker protection.

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

Moreover, very low resistance components which are chosen for M-6200 are large speaker terminal, rectangular wire coil and so on.

Making signal path thick and short attains low impedance.