MONOPHONIC POWER AMPLIFIER

M-6200

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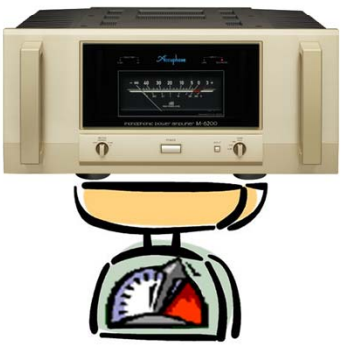
M-6200 is a succession model of M-6000 and our flagship of class-AB monophonic power amplifier.
We've already launched another flagship class-A monophonic power amplifier A-200 as the 40 year anniversary model.
M-6200 inherits superb technologies from A-200.
And it is the newest model of M-6000 series.

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.)

Front and rear view

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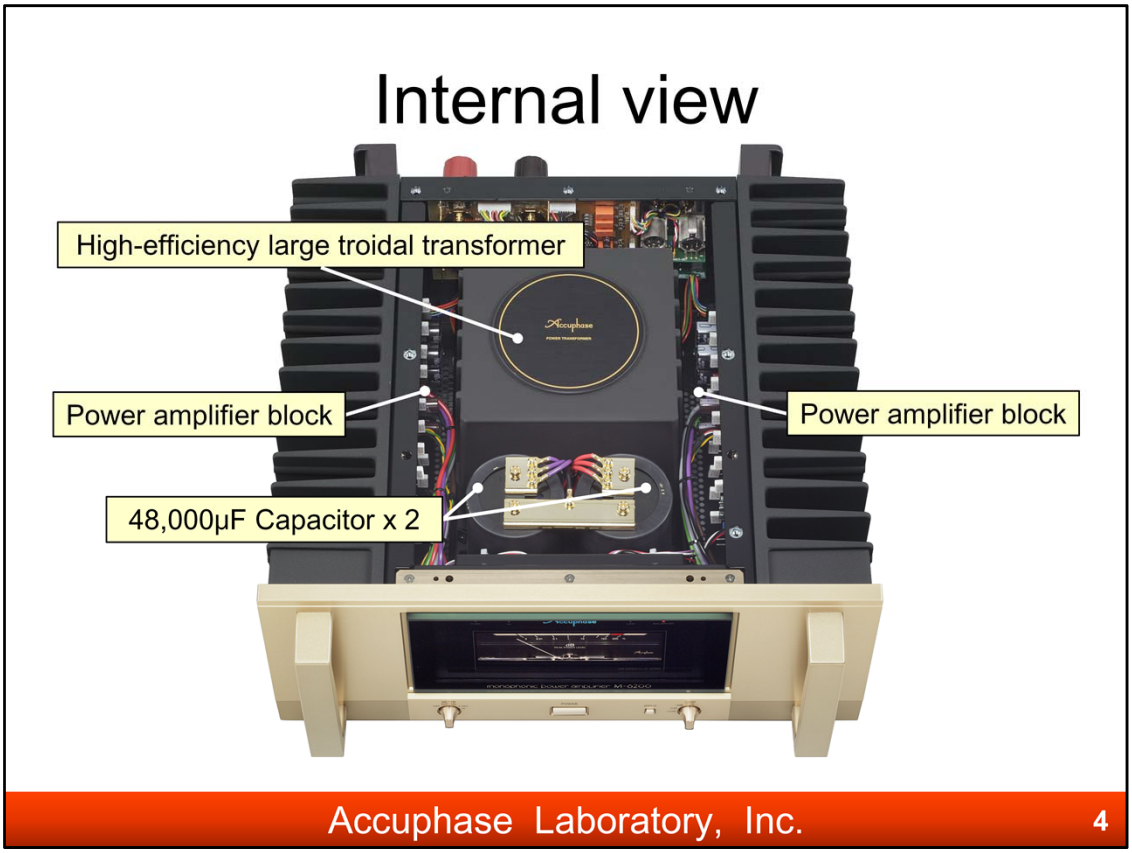
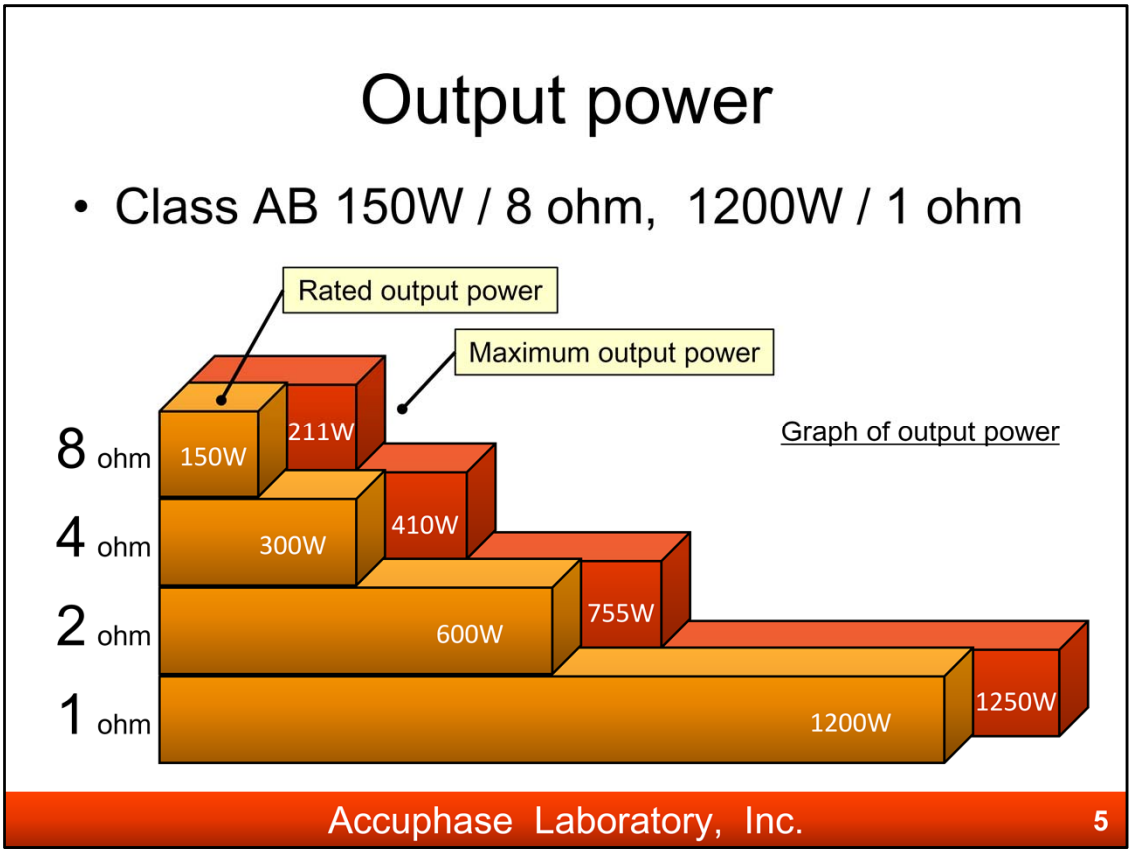
M-6200 has an analog power meter and it has peak-hold and hold time control function.
2 pairs of large speaker terminals are equipped.
They are useful for bi-wiring connection with loud speaker.



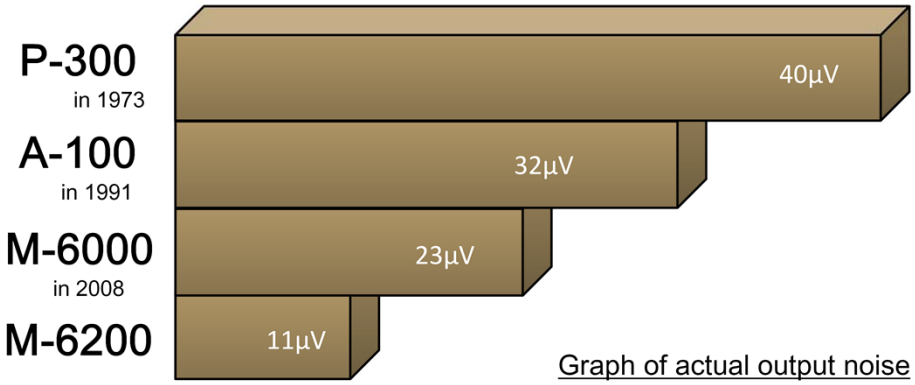
Strong power supply by large Troidal transformer with newly designed heat-radiation fins and a pair of 48,000μF capacitors are installed.



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.

Ultra Low Noise

- Lowest noise in Accuphase 42years power amplifier history
  - S/N ratio: 127dB guarantee / 130dB(11μV)typical



Graph of actual output noise

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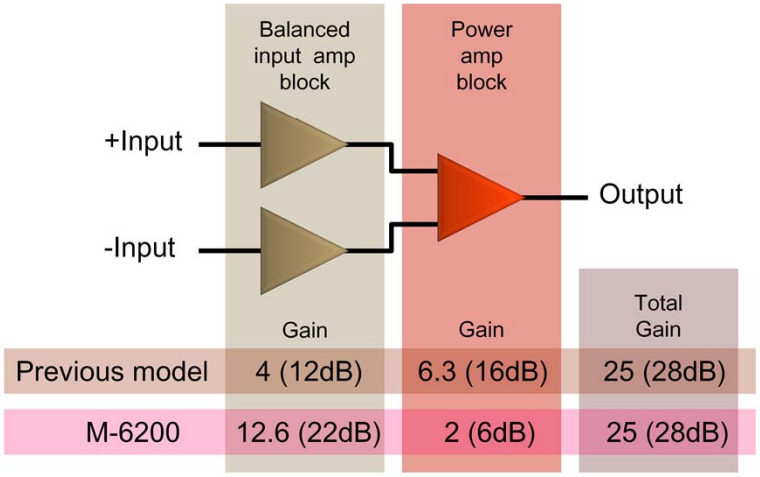
M-6200 has the lowest noise performance in the 42 years' history of Accuphase power amplifier.
Our first stereo power amplifier P-300 launched in 1973 had 40μV of noise voltage.
42 years later, M-6200 achieves 11μV at last.
This is less than half of the former model M-6000.

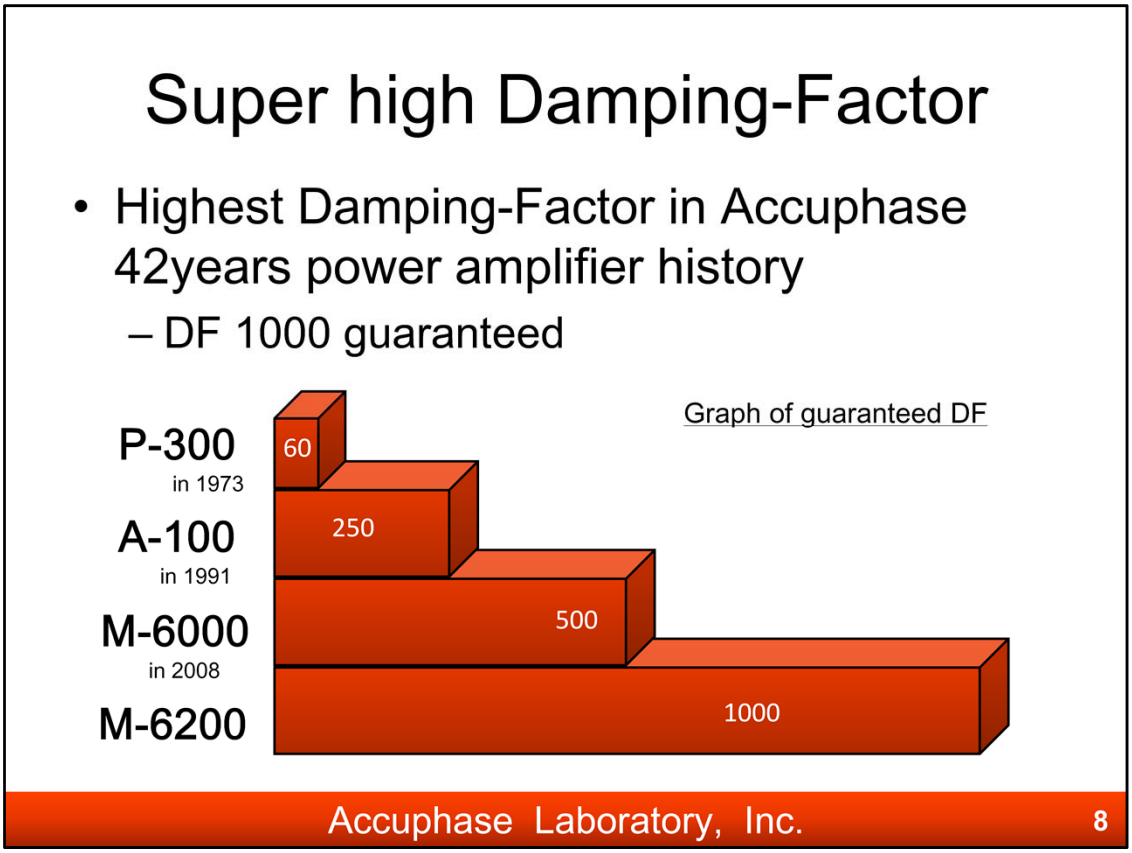
Technology for low noise

- Optimized gain allocation
  - Output noise voltage is reduced to 49%



	Gain	Gain	Total Gain
Previous model	4 (12dB)	6.3 (16dB)	25 (28dB)
M-6200	12.6 (22dB)	2 (6dB)	25 (28dB)

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%.

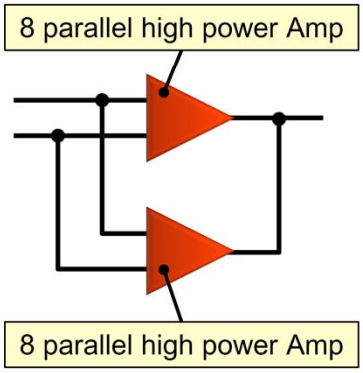


M-6200 has the highest Damping-Factor specification in the 42 years' history of Accuphase power amplifier.
DF of P-300 in 1973 was 60.
After 42 years, M-6200 achieves 1000 of DF.
This is 2 times higher than the former model M-6000.
This is the guaranteed specification. Actually, M-6200 has more than 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

Technology for high DF

- Parallel operation in power amplifier block
  - Output impedance is decreased to 50%

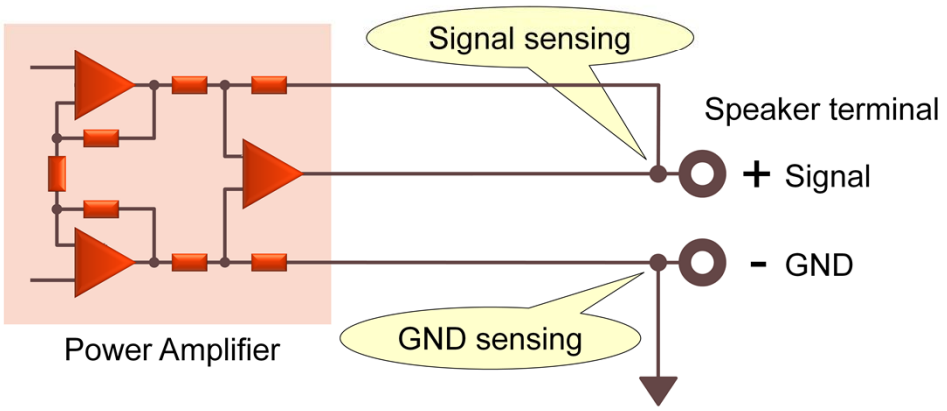


Power amp. Assembly

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%

Technology for high DF

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



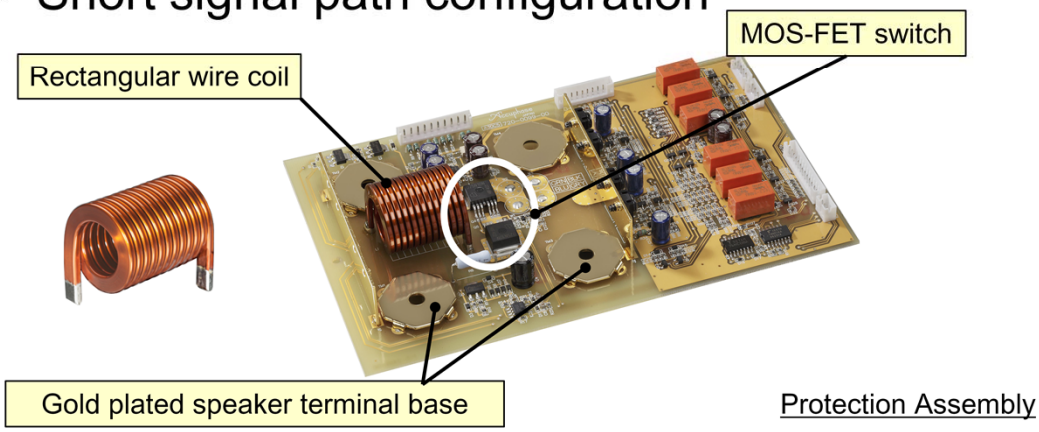
Remote-sensing is the technique to obtain lower output impedance of amplifier by negative feedback with signal sensing from close-up the speaker terminals.

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.

Technology for high DF

- Speaker protection equipped with MOS-FET
- Using very low resistance components
- Short signal path configuration



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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.