



Soundmagus Car Amplifier Specification

1 Model number: X3200



2 Features:

- 3000Wrms Class-D amplifier.
- 2/1-channel mode for versatile wiring.
- Double Side PCB and SMD components.
- Adjustable Input level, LPF, Subsonic, bass boost function.
- Advanced short circuit, overload, over heat protection.
- Heavy-duty terminals.
- Optional wired remote controller.

3 Detailed specs:

3.1 Test Condition.

All the specs were tested with following condition unless noted.

1. Power supply: 14.4V DC power supply
2. Test signal: 50Hz sine wave.
3. Loads: Resistor dummy load.



4. Environment: 25 degree C, open air.
5. Relative humidity: 70%.
6. Tested at 1ch mode.
7. Test Instruments: Audio Precision SYS-2322A.

3.2 Output power.

Following table is the RMS output power with THD value at 5%, 3%, 2% and 1%.

Power THD	RMS power (2ohm)	RMS power (4ohm)	RMS power(8ohm)
THD=5%	3182W	2425W	1508W
THD=3%	2876W	2166W	1330W
THD=2%	2712W	2048W	1245W
THD=1%	2543W	1835W	1106W

Table 1 Output Power with THD

Following chat shows the output power with THD curve at 8ohm load, 4ohm load and 2ohm load.

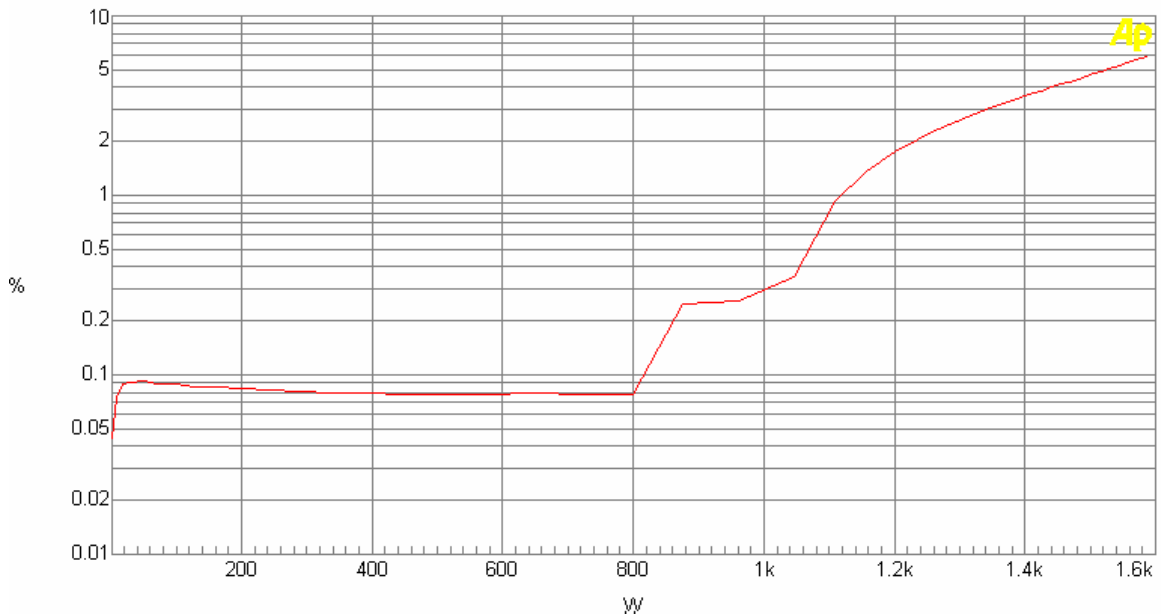


Chart 1. RMS output power @8ohm with THD



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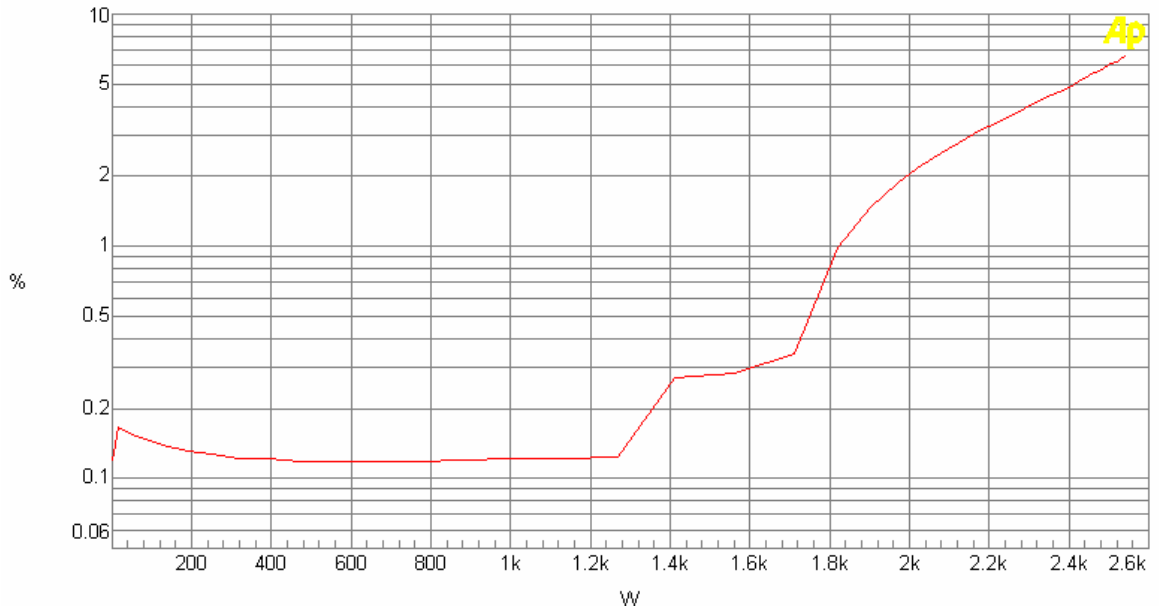


Chart 2. RMS output power @4ohm with THD

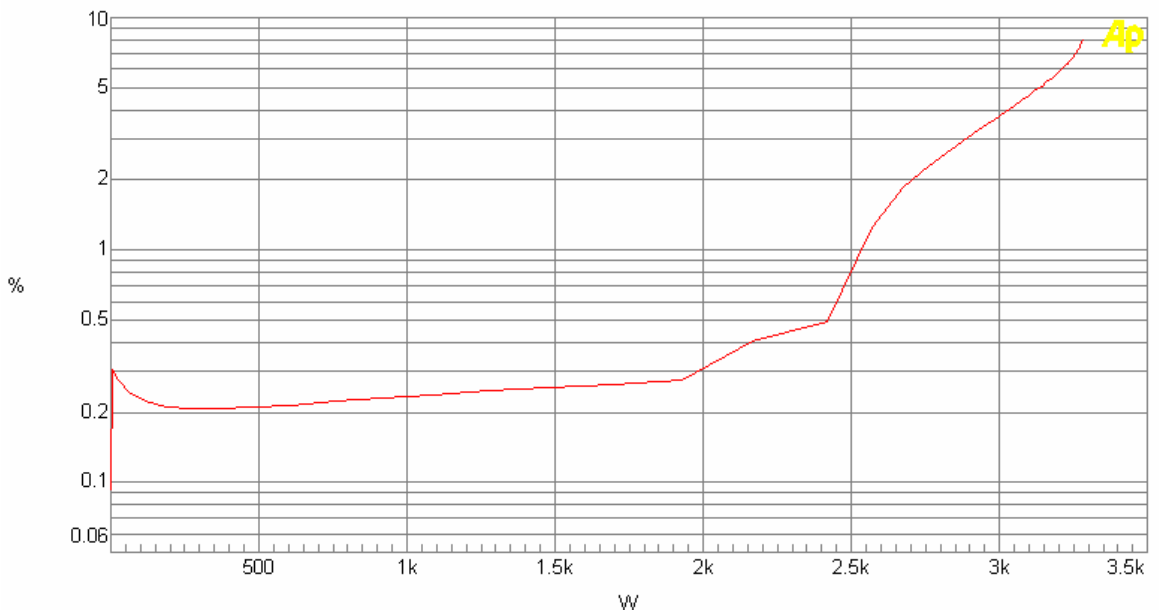


Chart 3. RMS power @2ohm with THD

3.3 Frequency Response

1. -3dB frequency response: 8Hz~179Hz.
2. -1dB frequency response: 11Hz~136Hz..

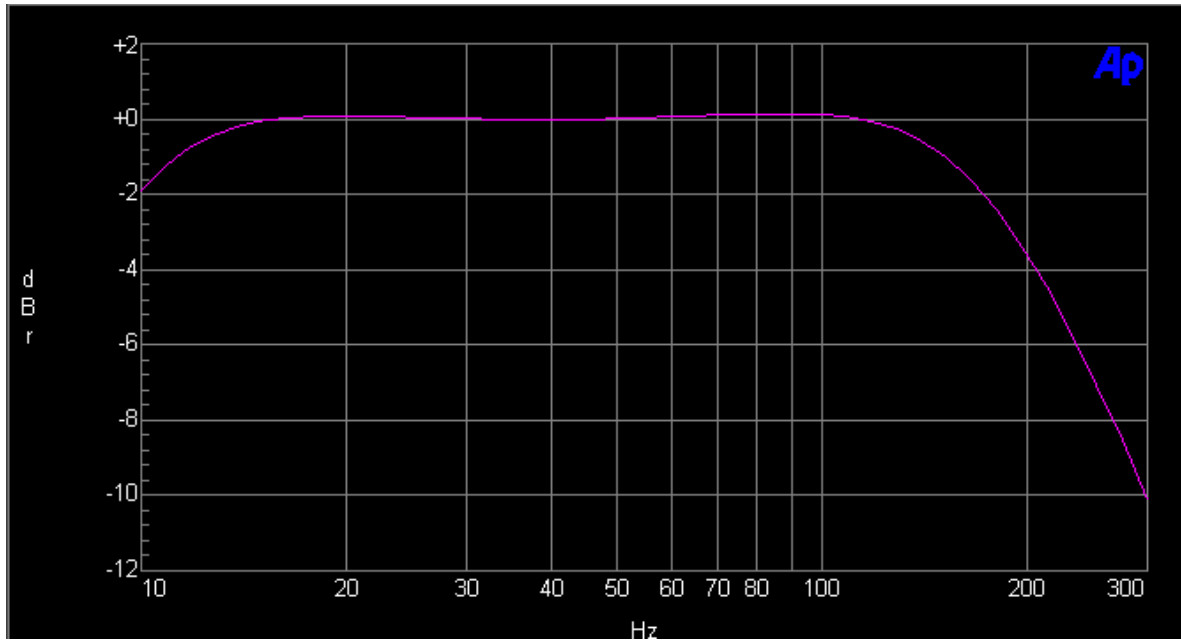


Chart 4. Frequency Response

3.4 LPF & Subsonic Filter features

1. LPF adjustable from 45Hz~179Hz.
2. Subsonic Filter adjustable from 8Hz~33Hz.

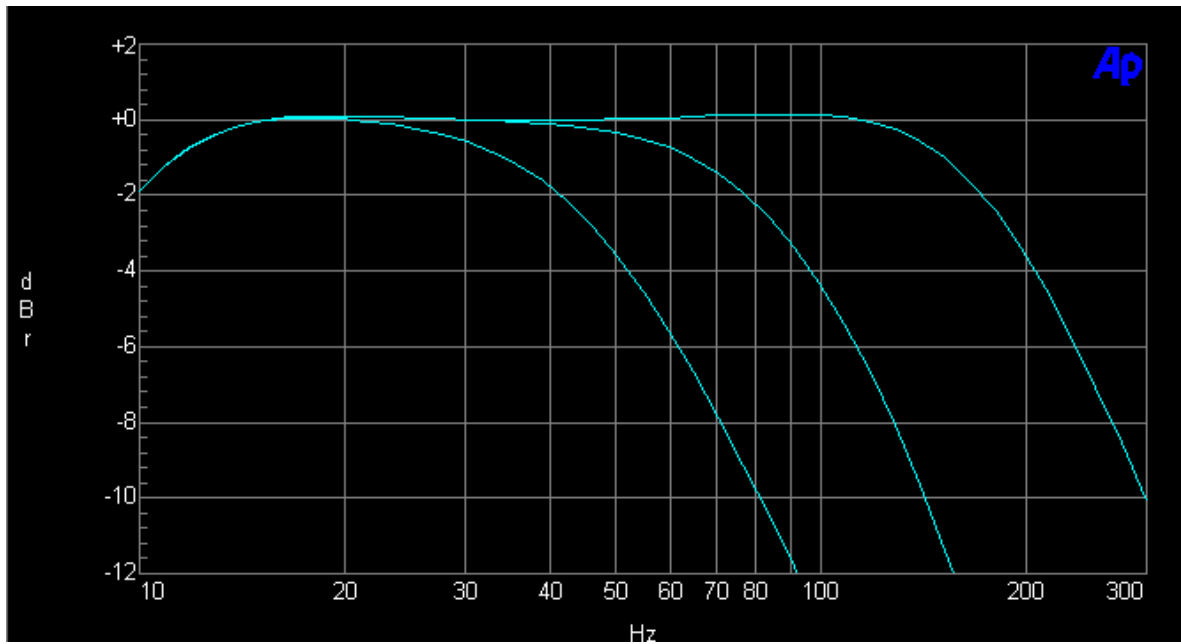


Chart 5. LPF response

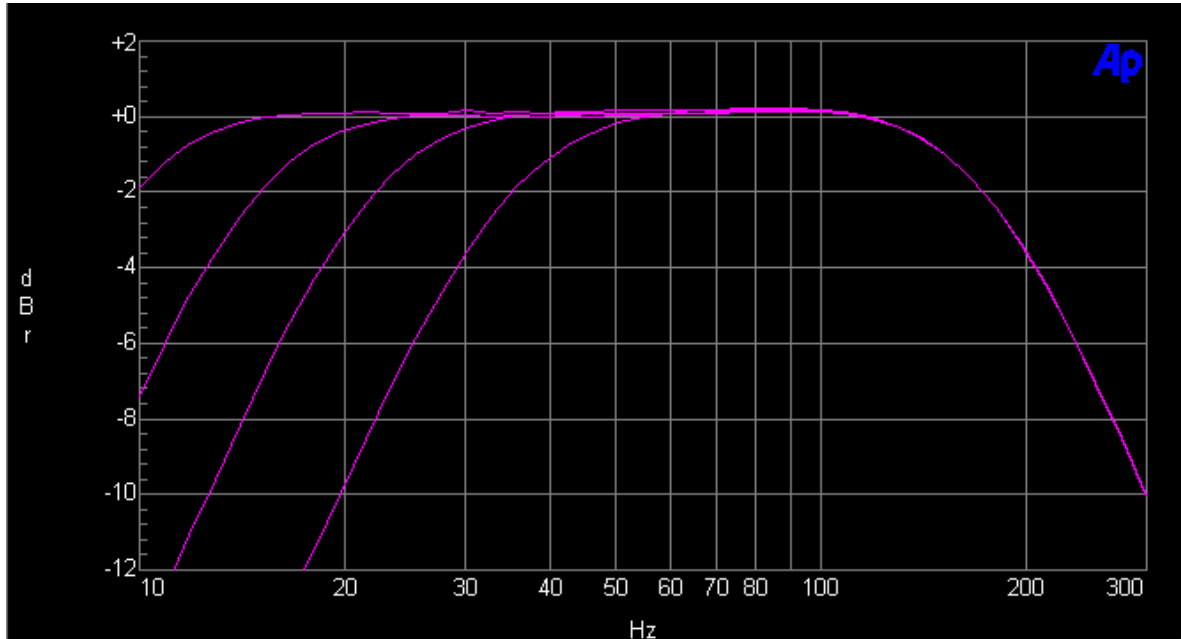


Chart 6. Subsonic Filter response

3.5 Bass Boost Feature

Bass boost center frequency adjustable from 30Hz~80Hz, level adjustable from 0~12dB.

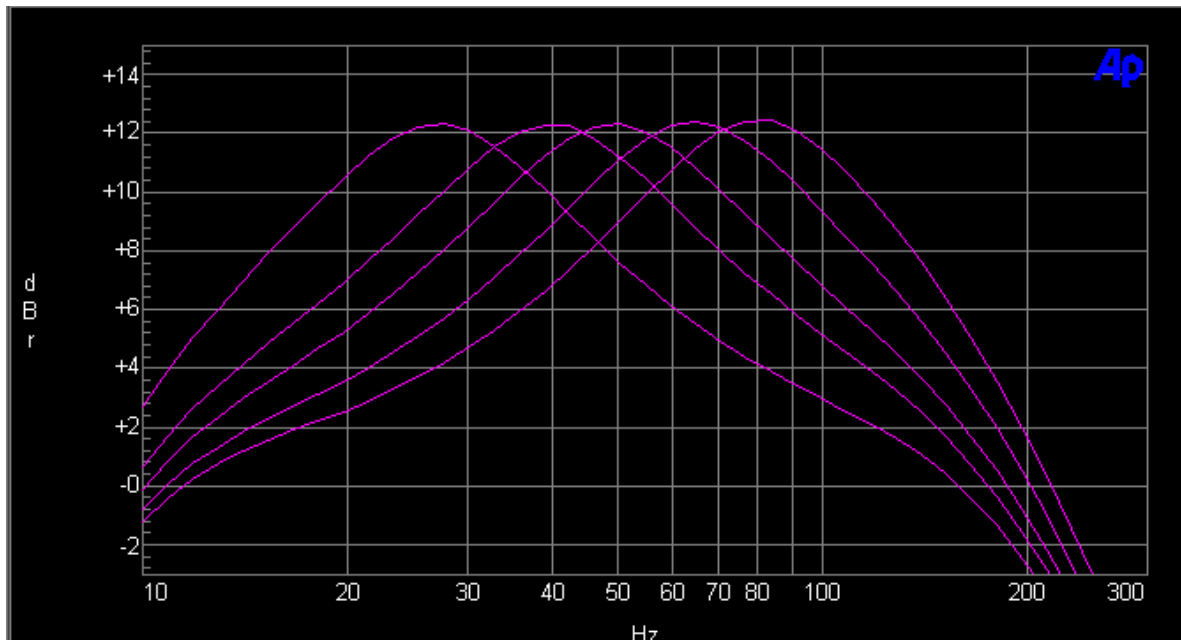


Chart 7. Bass boost frequency adjust

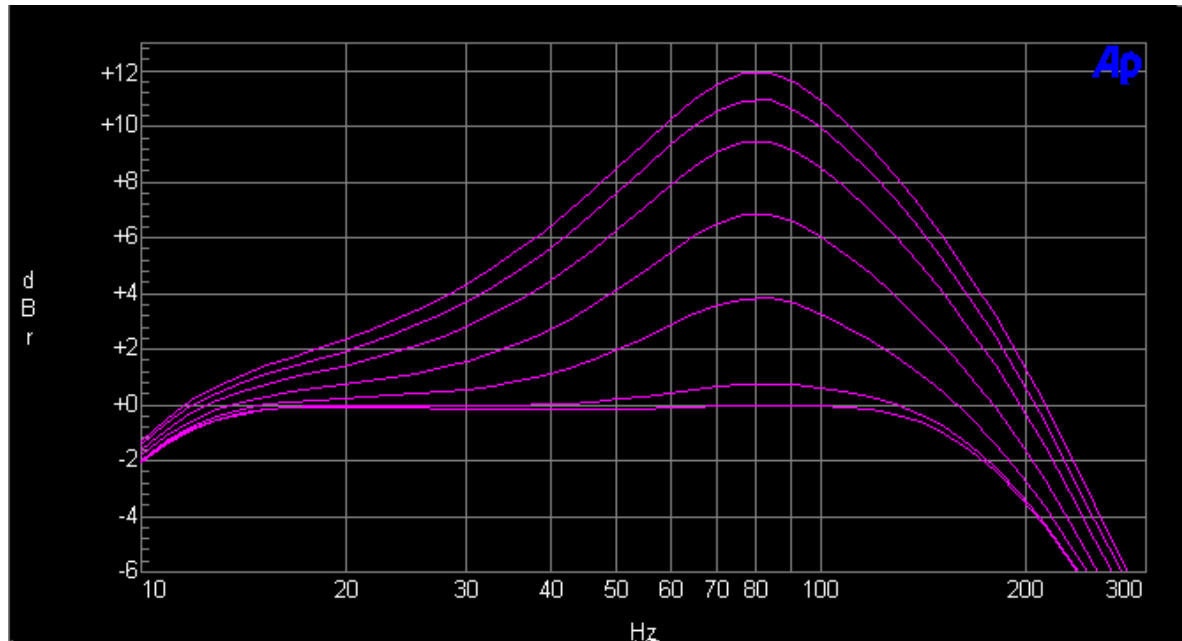


Chart 8. Bass boost level adjust (center set at 80Hz)

3.6 THD+N

0.122%(A-weighted, 0~22KHz), test at 1000Wrms output power, 4ohm load.

3.7 Signal to noise ratio

95.2dB (A-weighted, 0~22KHz).

3.8 Input Level

0.133Vrms~7.3Vrms.

3.9 Protection System

1. Overload:

Protect less than 1.35Ohm load at full-scale output power.

2. Short Circuit:

Full rated power short circuit protect test: passed.

Full rated power long last short circuit test: 10 minutes passed.

3. Over temperature:

Protect while inner temperature over 82 degree C.

4. Low voltage:



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Protect while power supply voltage lower than 7.7V.

3.10 Idle current and Efficiency:

1. Idle current: 2.24A
2. Efficiency: 82.6% at 1800W (4ohm)

3.11 Dimension

This amplifier's size is at 228mmX375mmX104mm(W,L,H).