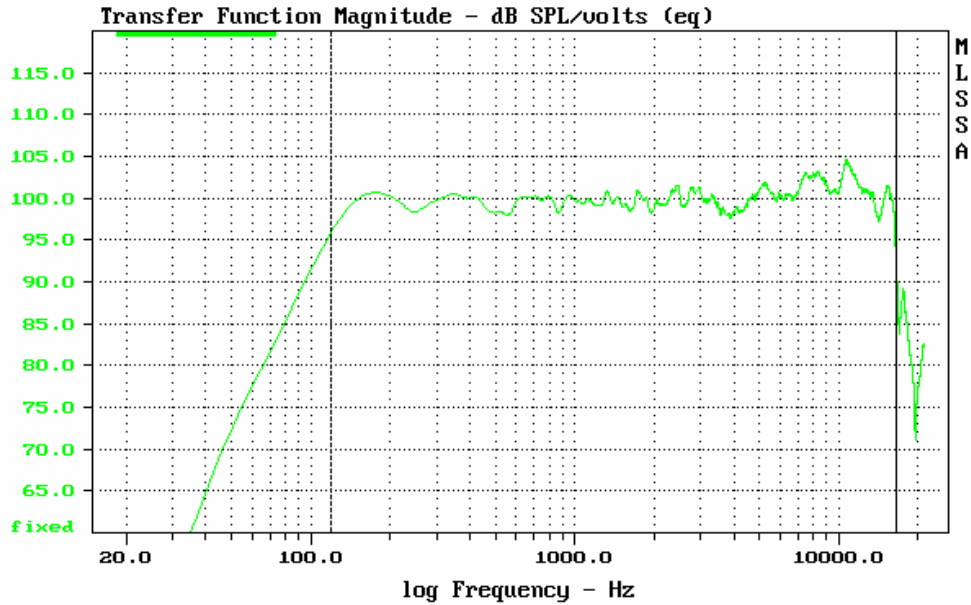
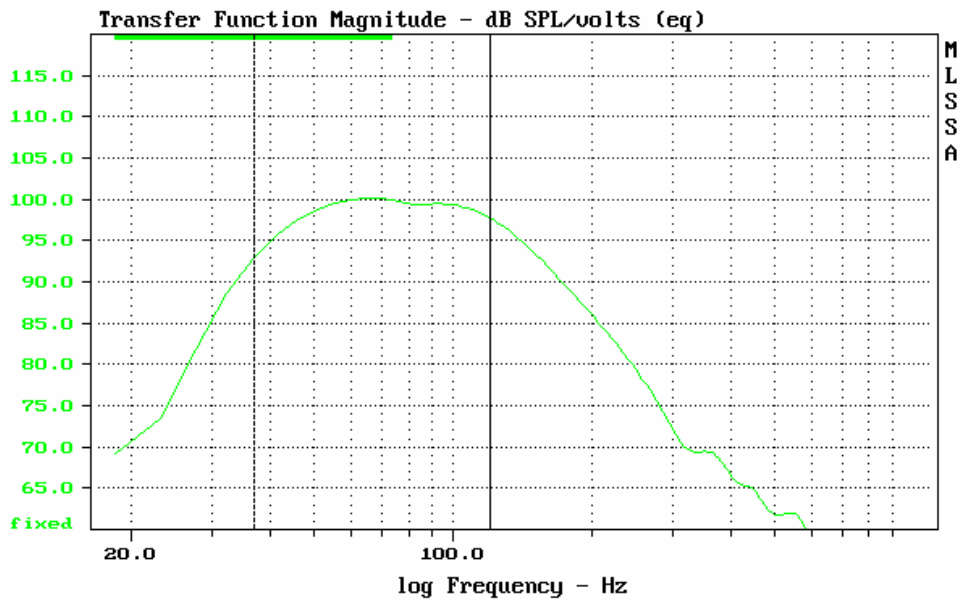


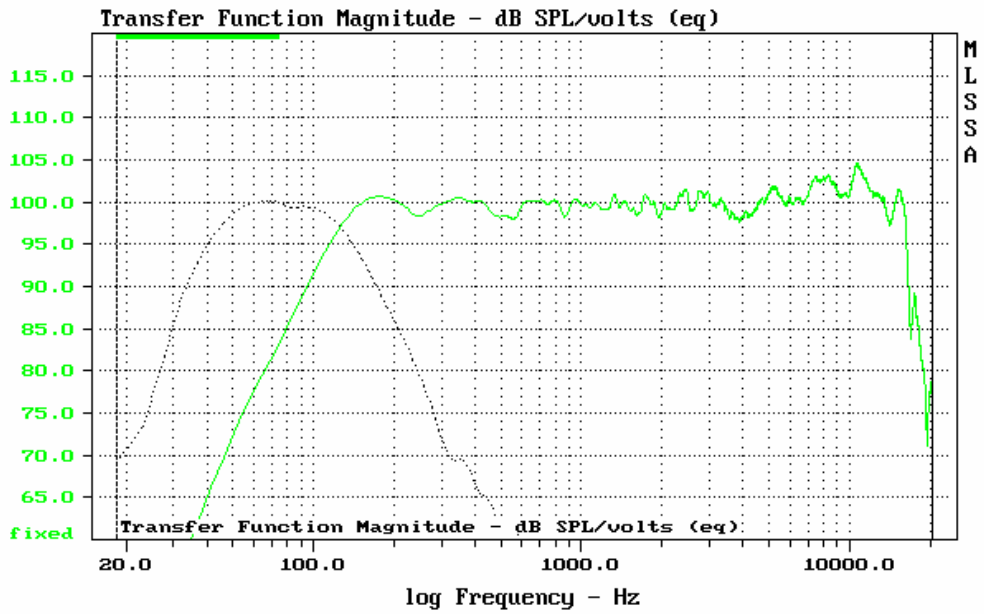
SELF-POWERED KANGURO 1215A – technical information



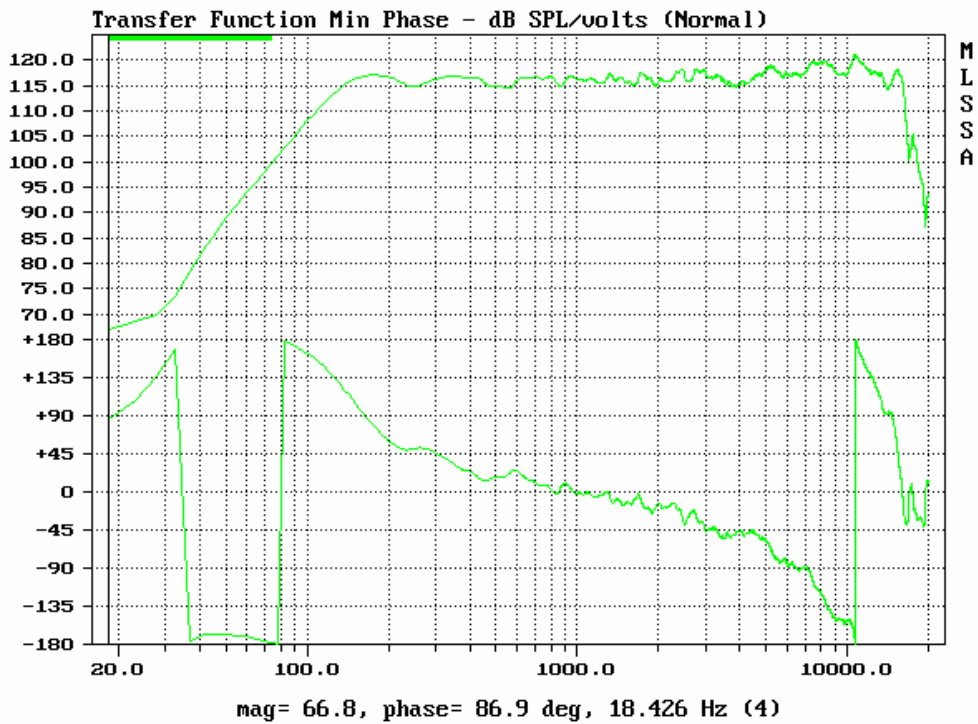
mean: 100.67, rms: 100.83, std: 1.53, max: 104.66, min: 92.18



mean: 98.80, rms: 98.92, std: 1.30, max: 100.05, min: 92.85

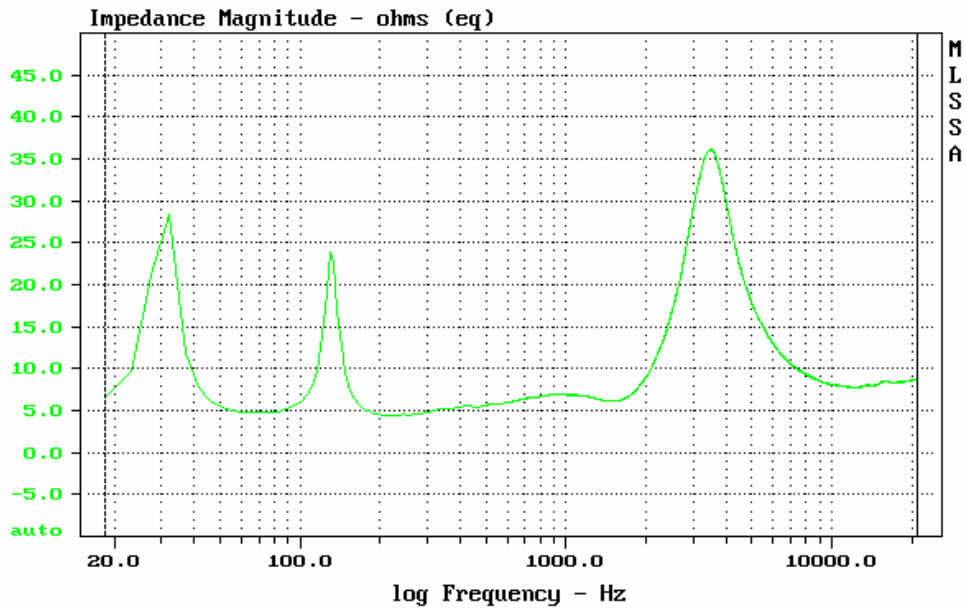


Kanguro K-1201A & K-1501A

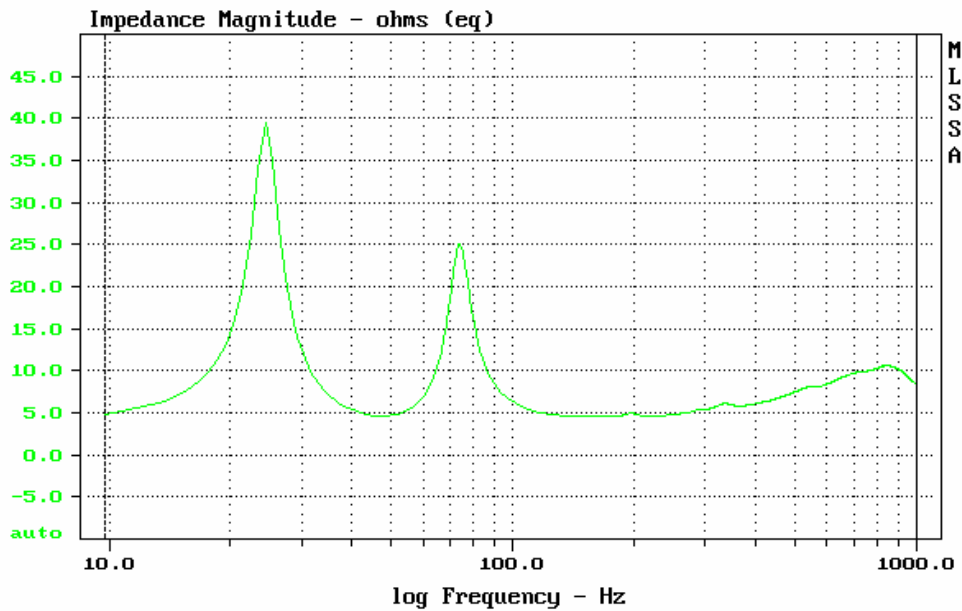


Kanguro K-1201A

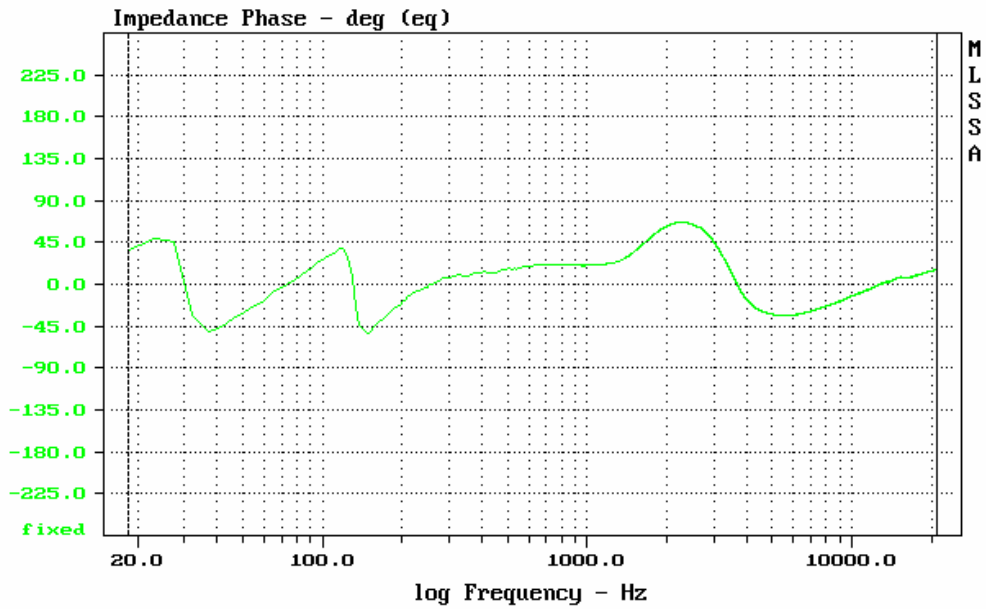
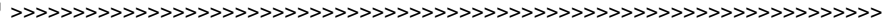
MLSSA: Bode Plot



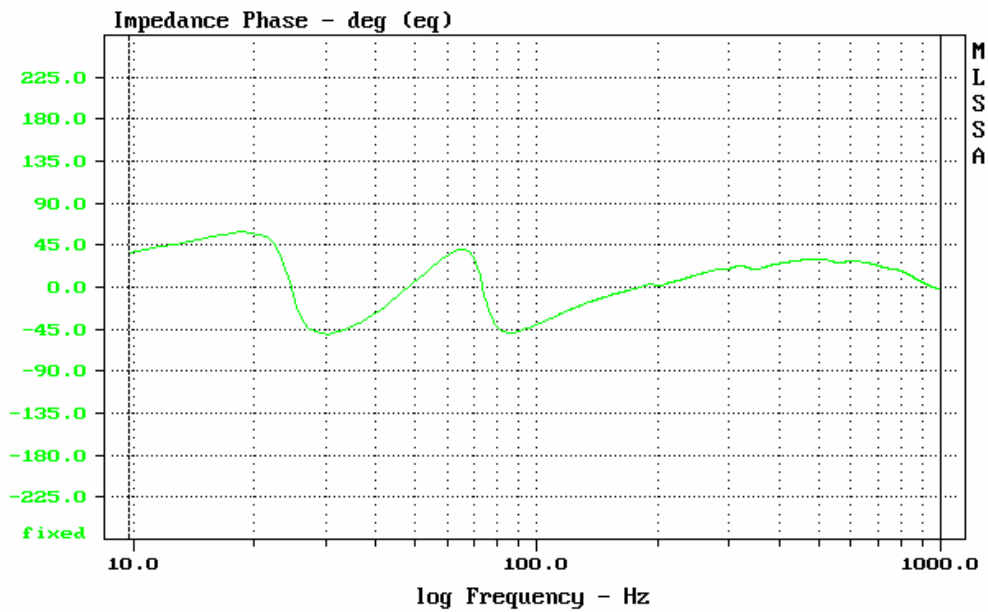
mean: 11.03, rms: 12.85, std: 6.596, max: 36.2, min: 4.385



mean: 8.029, rms: 8.638, std: 3.185, max: 39.42, min: 4.605



max: 66.3225 x = 2349.278 (510), min: -52.0878 x = 147.406 (32);



max: 58.8753 x = 18.555 (19), min: -50.2777 x = 30.273 (31);

BUILT-IN AMPLIFIERS' SPECIFICATIONS

KANGURO Satellite (K-1201A)

Performance features

- 500W @ 0.02% THD+N, 1kHz, 4Ω
- Peak output current > 45A
- 117dBA dynamic range
- THD = 0.0009% @ 100mW, 5kHz
- THD+N < 0.1% , 0.1W – 500W, 4Ω
- Efficiency = 93% @ 300W / 8Ω
- Output impedance < 5mΩ @ 1kHz
- Power Supply Rejection Ratio > 60dB
- Output DC-offset < 25mV

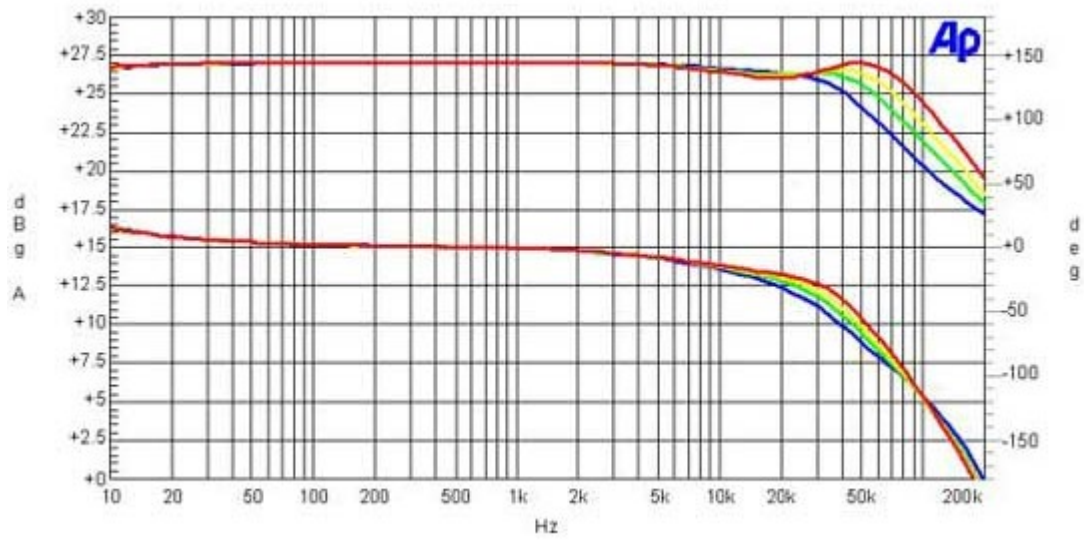
Other features

- Soft clipping
- Soft start-up
- Stand-by
- Soft mute/de-mute
- Under voltage protection
- Monitor output
- Balanced input
- Balanced output

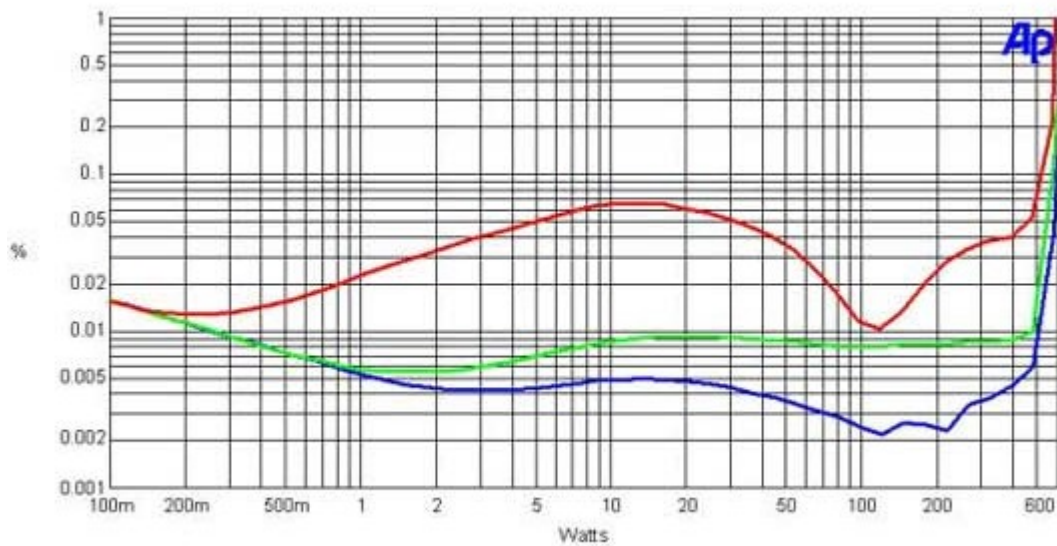
Audio specifications

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
THD+N	THD+N in 4Ω (AES17 measurement filter)	f = 1kHz, P _o =1W		0.006	0.01	%
THD+N	Maximal THD+N in 4Ω (AES17 measurement filter)	10Hz < f < 20kHz 100mW < P _o < 500W		0.1	0.12	%
V _{N,O}	Output referenced idle noise	A-weighted 10Hz < f < 20kHz	65	75	115	μV
V _{OFF,DIFF}	Differential offset on output terminals	Terminated input			±25	mV
A _V	Nominal Voltage Gain	f = 1 kHz	26.8	27.1	27.4	dB
f	Frequency response	20Hz - 20kHz, All loads		±0.5	±1.0	dB
f _u	Upper bandwidth limit (-3dB)	R _L = 8Ω		50		kHz
Z _L	Load impedance range		2	4	0	Ω
D	Dynamic range	A-weighted		117		dB
IMD1	Intermodulation (CCIF)	f = 19kHz, 20kHz, P _O = 10W		0.002	0.001	%
IMD2	Intermodulation (SMPTE)	f = 60Hz, 7kHz(1:4), P _O =10W		0.02	0.03	%

Frequency response



THD+N



KANGURO Subwoofer (K-W15A)

Performance features

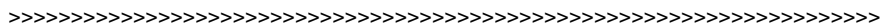
- 1000W @ 0.04% THD+N, 100Hz, 4O
- Peak output current > 50A
- 120dBA dynamic range
- THD+N < 0.1% , 0.1W – 1000W, 4O
- Efficiency = 93% @ 500W, 8O
- Output impedance < 5mO > @ 1kHz
- Power Supply Rejection Ratio > 60dB
- Output DC offset < 40mV

Other features

- Soft clipping
- Soft start-up
- Stand-by
- Soft mute/ de mute
- Under voltage protection
- Monitor output
- Balanced input
- Balanced output

Power specifications

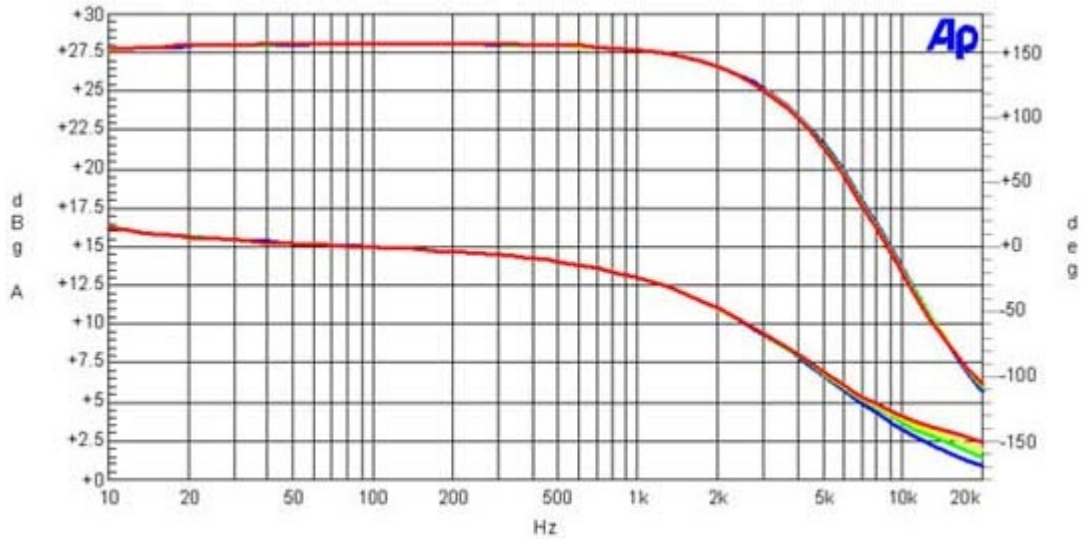
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_P	Power Supply	Operation	40	120	125	V
P_O	Output power @ 0.1% THD+N 10Hz < f < 1kHz (AES17 measurement filter)	$R_L = 4\Omega, V_P = 120V$ $R_L = 6\Omega, V_P = 120V$ $R_L = 8\Omega, V_P = 120V$		1000 800 600		W
I_{VP}	Quiescent current	$V_P = 120V$	20	35	40	mA
I_{VCC}	Quiescent current	$V_{CC} = 12V$		200	230	mA
I_{VSS}	Quiescent current	$V_{SS} = -12V$		25		mA
η	Power stage Efficiency	$R_L = 8\Omega, P_O = 500W$		93		%
PSRR	Power Supply Rejection Ratio of V_P	Voltage Ripple @ f = 100 - 120 Hz	60			dB



Audio specifications

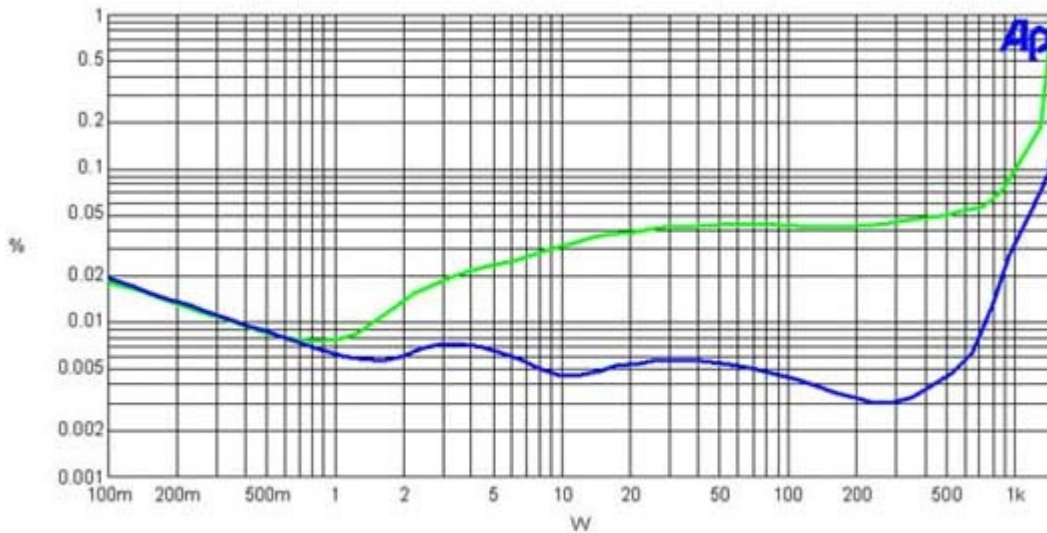
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
THD+N	THD+N in 4Ω (AES17 measurement filter)	f = 100Hz, P _o =1W		0.008	0.01	%
THD+N	Maximal THD+N in 4Ω (AES17 measurement filter)	10Hz < f < 1kHz 100mW < P _o < 100W		0.05	0.07	%
V _{N,O}	Output referenced idle noise	A-weighted 10Hz < f < 20kHz	70	80	100	μV
V _{OFF,Diff}	Differential offset on output terminals	Terminated input			±40	mV
A _V	Nominal Voltage Gain	1 kHz	27.8	28.1	28.4	dB
f	Frequency response	20 - 1kHz, All loads		±0.5	±1	dB
f _u	Upper bandwidth limit (-3dB)	R _L = 4Ω		3		kHz
Z _L	Load impedance range		2	4	°	Ω
D	Dynamic range	A-weighted		120		dB

Frequency response



Frequency response in 4Ω, 8Ω, and 16Ω and open load

THD+N



THD+ N vs. output power at 100Hz and 1kHz in 4Ω (AES measurement filter).