

BMA/PMA 125.4 4x125 Watt

Full Range Class GH Amplifier

Oct 20th 2009

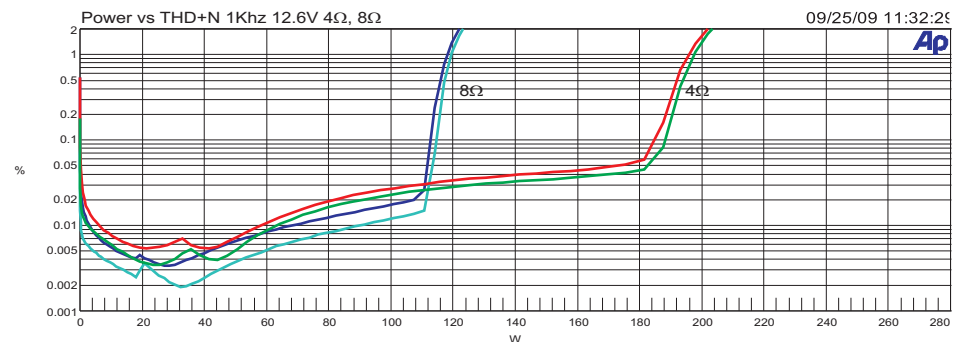
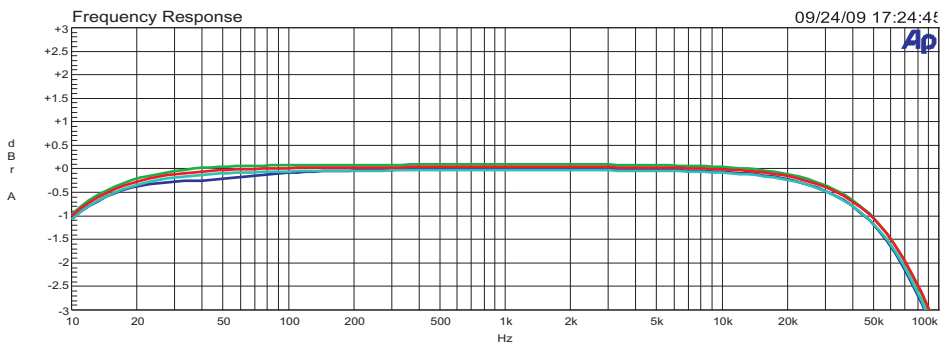
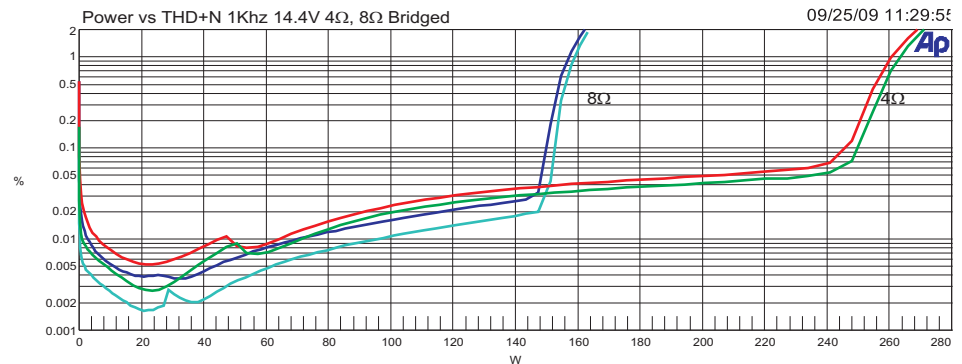
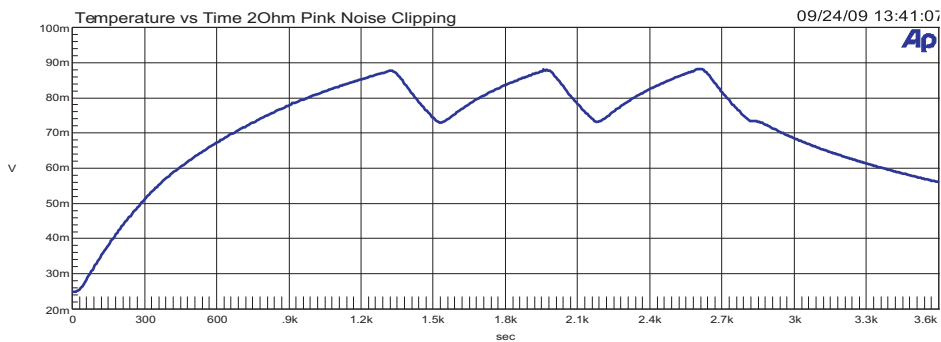
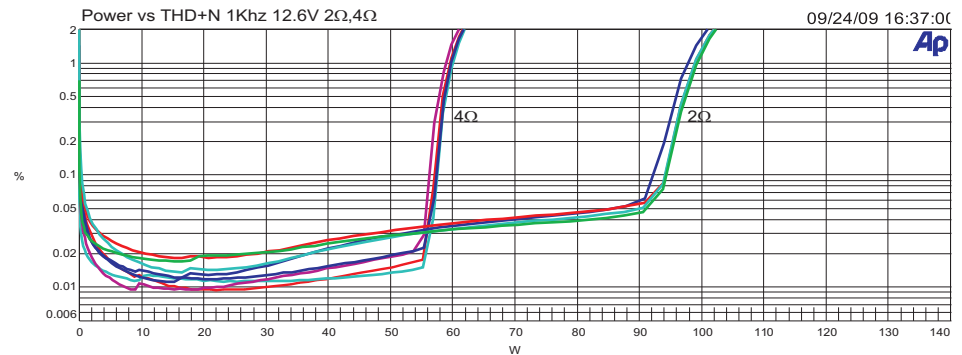
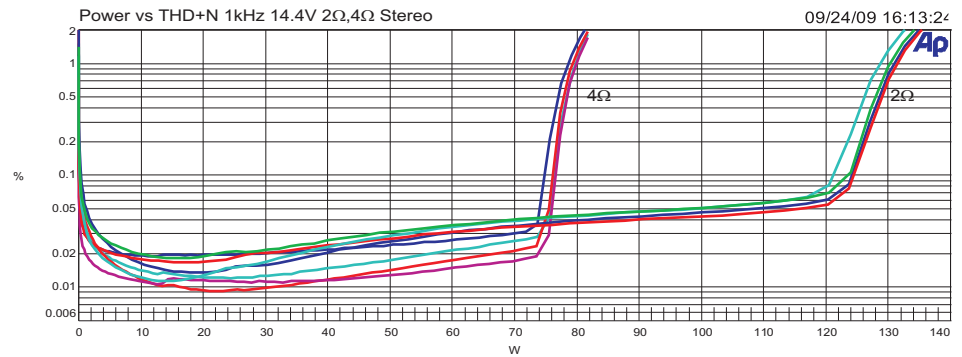
Output Power (RMS) @ 1% 1000Hz 14.40V CEA 2006
 Stereo @ 4Ω 4x81 Watts @ 34A Eff. 66%
 Stereo @ 2Ω 4x134 Watts @ 57A Eff. 65%
 Mono @ 8Ω 2x160 Watts @ 34A Eff. 65%
 Mono @ 4Ω 2x265 Watts @ 59A Eff. 62%

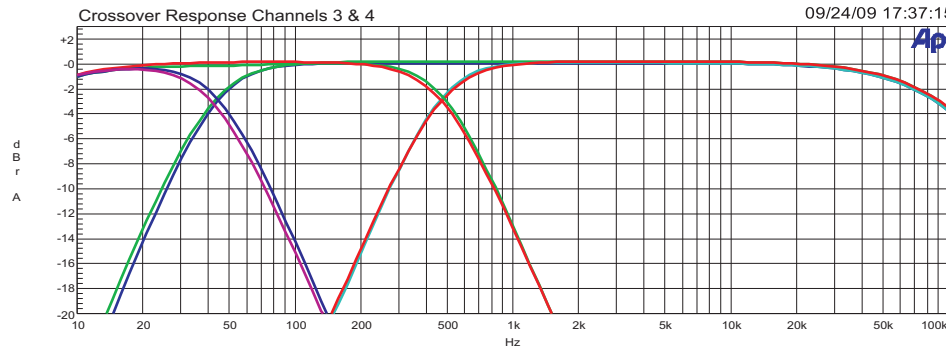
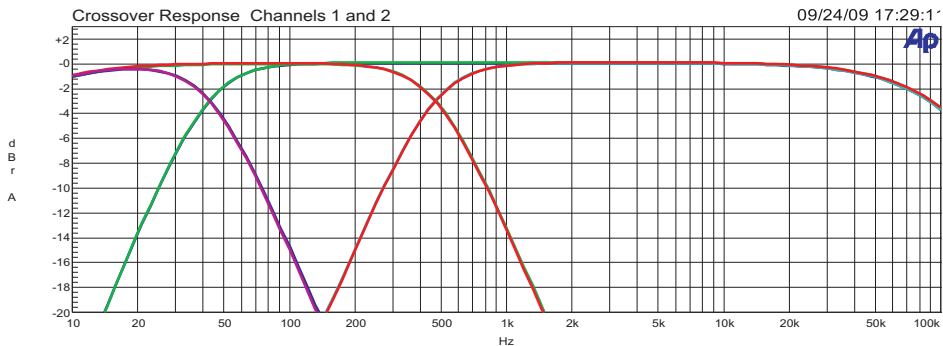
Frequency Response -3dB 1Hz - 69kHz
 Crossover Range High and Low Pass 53Hz - 600Hz
 Bass Boost 0-15dB @ 42Hz

S/N Ratio (A wtg) >90dB Ref 1 Watt 4Ω Ref 75Wx4 4Ω
 Separation 74dB >109dB 73dB

Input Sensitivity Low Level 0.3V - 2.6V

Input Impedance 47.5KΩ





Features:

High efficiency Class GH Hybrid Design Provides the clean sound of a class AB amplifier and much of the efficiency of a Class D.

Two layer PCB with 2 Oz final copper weight on top and bottom. Lead Free

Fan speed controlled by Temperature and Music Level

Auto Turn on with Bridged Deck Sense

Thermal Trip points.

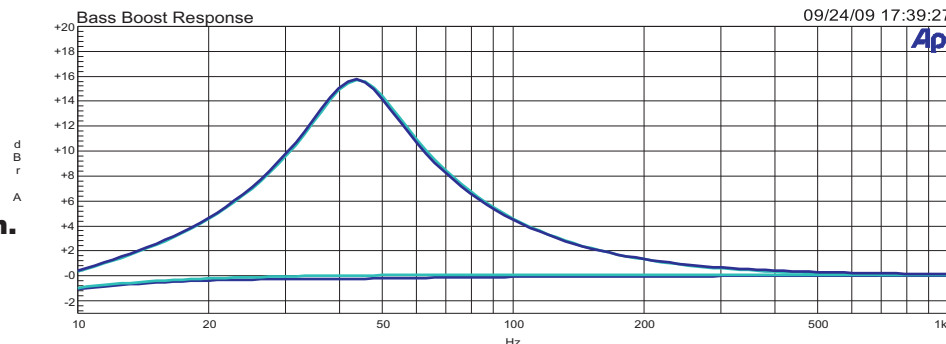
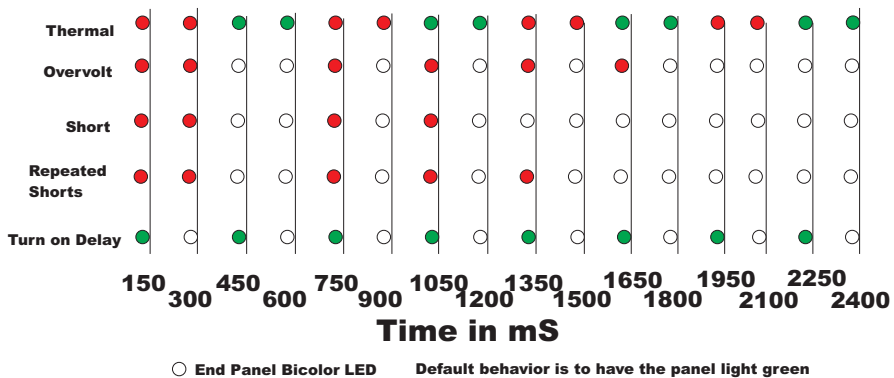
85C = Thermal Protection.

78C = Amp resumes from thermal protection condition

Overvoltage Points

18.0V Overvolt Protection

17.3V Amplifier Resumes



VAMP(H) Rail	VAMP(L) Rail	Vop Rail	Vdrv
28V	14V	15V	32V
Switching Frequency	Idle Current	Bias across 2Watt resistors	
27kHz	1.3A	2mV mV	
Transformer Turns Ratios			
4 Primary, 4 Low Turns, 4 High Turns, 2 Vdrv Turns, 5 G+ Turns			

Model	Board Revision	Testing Sample Level & Serial Number
BMA125.4	1.04a	Prototype SN:P1x
Document Revision		Testing Date
1.3		Sept 24th 2009
Document Date		Signature
Oct 20th 2009		<i>Richard Greenway</i> Richard Greenway