

DDN6410 4x75W @ 4 Ohm

Full Range Class D Amplifier

September 18th 2012

Output Power (RMS) @ 1% 1000Hz 14.4V CEA 2006

Stereo @ 4Ohms 4x89 Watts @ 30A Eff. %

Stereo @ 2 Ohms 4x128 Watts @ 49A Eff. %

Mono @ 8 Ohms 2x181 Watts @ 30A Eff. %

Mono @ 4 Ohms 2x268 Watts @ 54A Eff. %

Frequency Response -3dB 7 Hz - 33 kHz

Crossover Range Low Pass 56Hz - 3.2kHz 12dB/Octave

Crossover Range High Pass 10Hz - 1kHz 12dB/Octave

Bass Boost 0-9.5dB @ 47Hz

1Watt 4ohm 75Watts 4ohm

S/N Ratio (Awtg)

>62dB

>85dB

Separation

>52dB

Input Sensitivity

0.2V - 6.1V

Features:

Two layer PCB

Lead Free

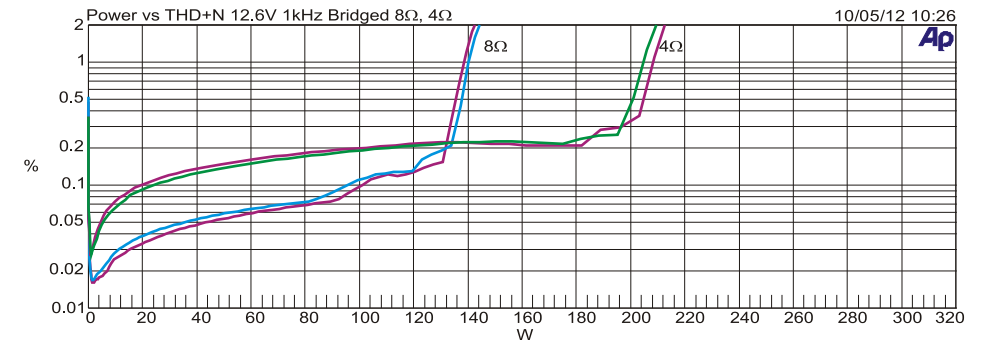
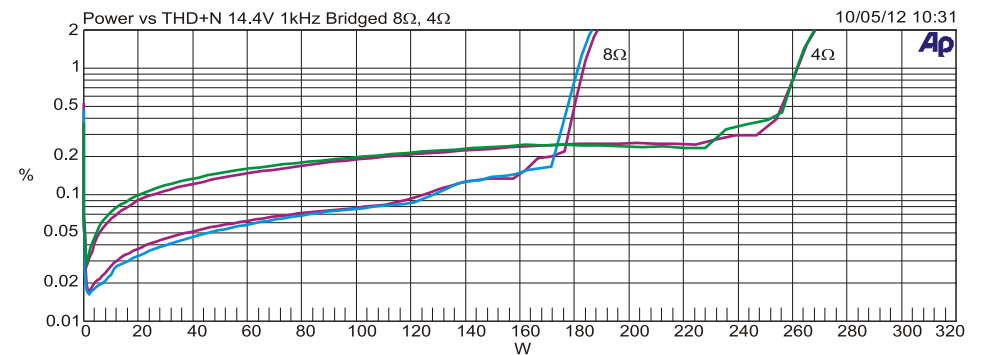
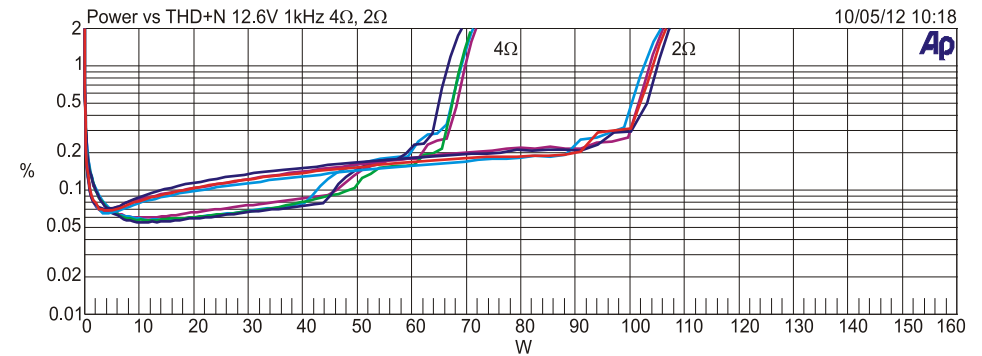
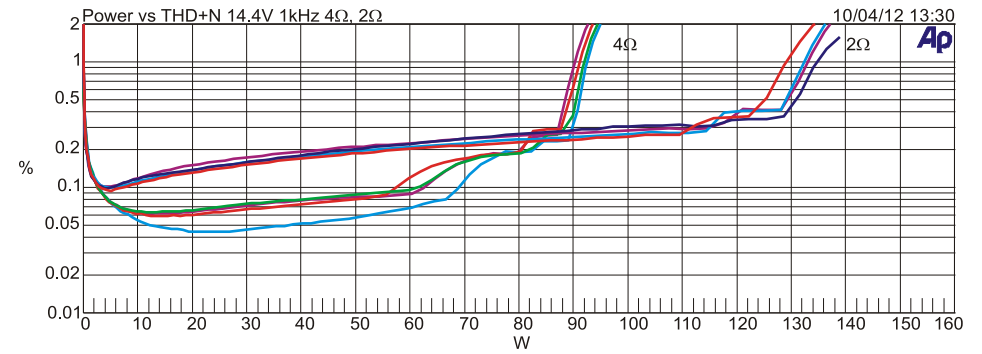
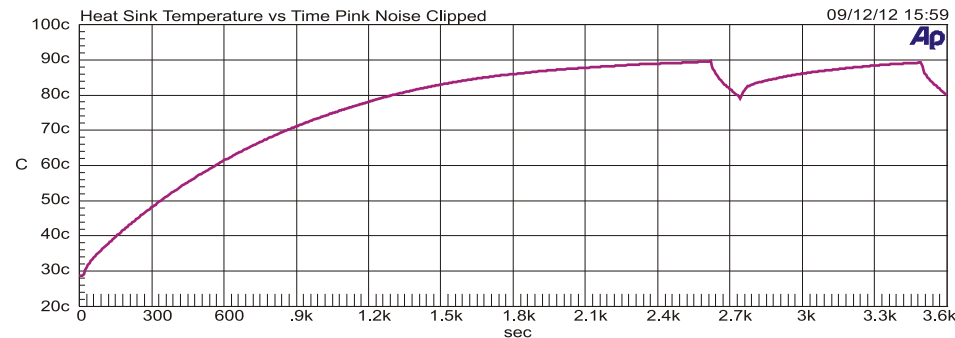
Microprocessor controlled

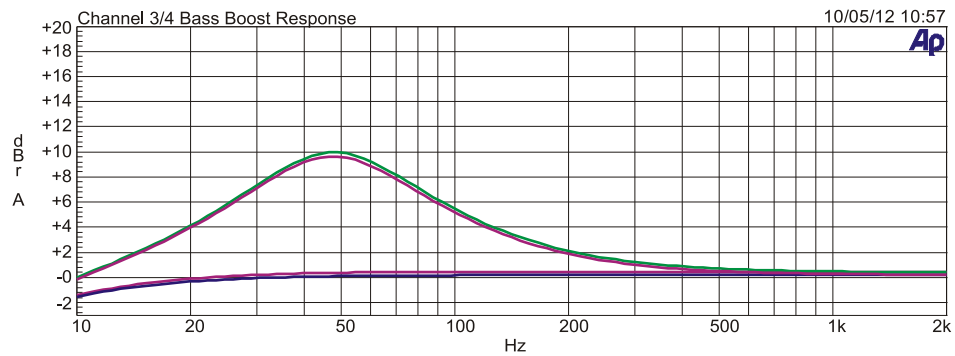
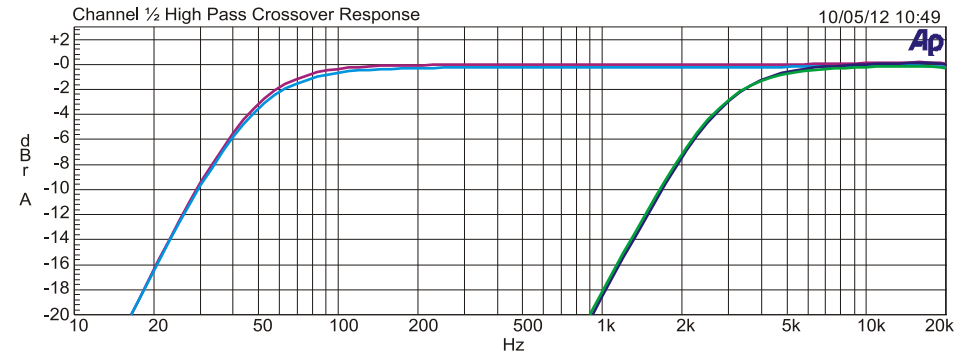
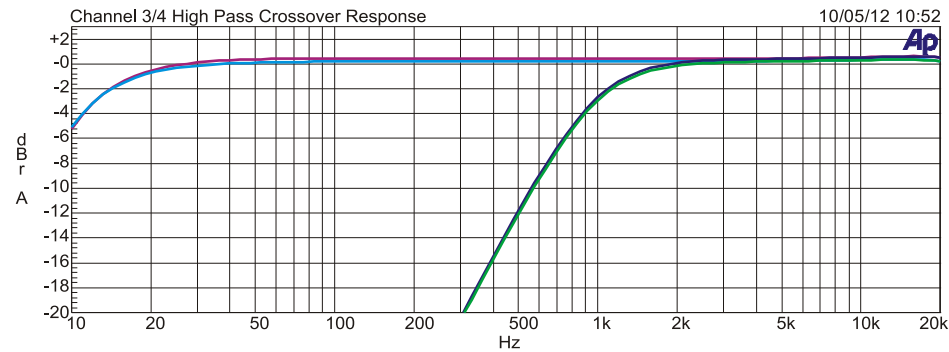
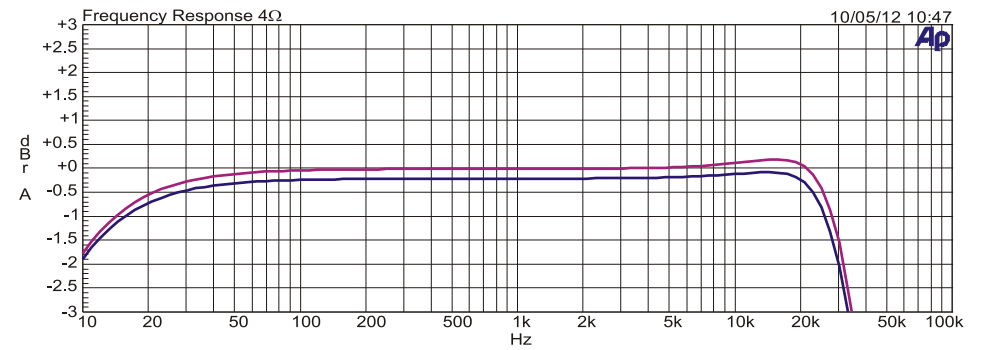
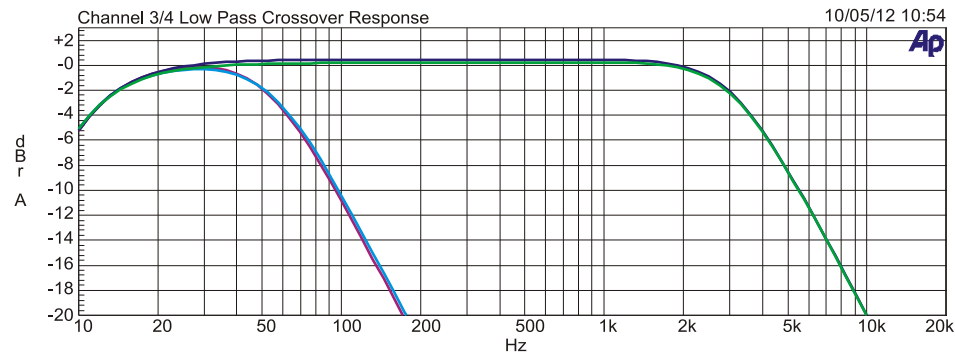
Intelligent lighting behavior for status

Full range Class D with Thermal Rollback

Shorted speaker leads mute just the affected channel, letting the amplifier continue to play

Overvoltage Points 15.6V Overvolt Protection





VAMP(H) Rail	VAMP(L) Rail	Vop Rail	Vdrv
32V		15V	NA
Switching Frequency	Idle Current	Bias across	
30kHz	1.2A	NA	
370kHz			
Transformer Turns Ratios			
4(2):4:9			

Model	Board Revision	Testing Sample Level & Serial Number
NNH6410	1.00mod	Prototype SN:P1
Document Revision	Testing Date	
1.0	Sept 17 th 2012	
Document Date	Signature	
Sept 19 th 2012	 Richard Greenway	