

NAD 216THX

Stereo Power Amplifier

- **2 x 125 Watts continuous power into 8ohms
2 x 200 Watts into 4ohms**
- **Dynamic Power 170, 280, 400 Watts into 8, 4 and 2 ohms respectively**
- **Low loss, massive Holmgren™ toroidal mains transformer**
- **Dual mono, Left and Right mirror image amplifier PCBs**
- **Protection circuitry senses short circuits, DC and overheating**
- **Bridgeable; 400 W into 8 ; 800W dynamic power into 4**

The all-new NAD 216 THX is part of a new range of power amplifiers which will further enhance NAD's enviable reputation for state of the art products at sensible prices.

The key design goals of the new range are PERFORMANCE and RELIABILITY. Both are attained at a very competitive price through efficient innovative design, simple circuitry and meticulous engineering.

Circuitry

The NAD 216 THX is designed with the capability to drive all types of musical signals effortlessly into the even most unreasonable of loudspeakers loads, down to below 1ohms. This is achieved by implementing a high output current amplifier powered from a "stiff" power supply.

Pioneered by NAD for the highly acclaimed 208 THX, the 216 THX couples a bank of reservoir capacitors to a large toroidal transformer. Using a bank of capacitors rather than a single pair is both technically superior and more economical.

The special Holmgren™ toroidal transformer has less hum and magnetic leakage than conventional toroidal transformers but retains the usual benefits of high efficiency and high power to weight ratio. The entire "front-end" is fed from a separate low-noise, high voltage, discrete component regulated power supply which effectively isolates the amplifier from power ripple and noise. Careful design incorporating sensible grounding results in an amplifier with an exceptionally clean, noise free output signal.

Additional features

For maximum flexibility, the NAD 216 THX can operate in bridged mono mode, typically tripling its continuous power rating into 8ohms. This makes the NAD 216 THX an ideal choice for a sub-woofer amplifier or high power centre channel amplifier in home theater applications. A pair of bridged NAD 216 THX's becomes a high current, high power stereo power amplifier, while retaining the refinement associated with smaller amplifiers.

NAD was the first company to introduce a THX certified power amplifier. It was therefore no surprise the NAD 216 THX passed Lucas Films' stringent THX requirements with flying colours. As a result the NAD 216 THX will handle all dynamics with ease and yet retain every subtle detail in the most demanding THX Dolby Surround systems.

The output relay protection circuit provides silent switch on and off, together with non-evasive protection against error conditions such as short circuits and overheating.

The NAD 216 THX also incorporates NAD's acclaimed switchable "Soft Clipping" circuit which significantly reduces the risk of damage due to prolonged high power operation.

The listening experience

The technological effort behind the NAD 216 THX results in a relaxed unstrained musicality with transparent, airy high frequencies, a deep, solid bass foundation and a smooth well-integrated midrange.



SPECIFICATIONS - NAD 216THX

Stereo Mode

Continuous Average Output Power		125W (21dBW)
<small>(Minimum power per channel, 20Hz-20kHz both channels driven, with no more than rated distortion)</small>		
Rated distortion <small>(THD 20Hz-20kHz)</small>		0.03%
Clipping power <small>(maximum continuous power per channel)</small>		160W
IHF dynamic headroom at 8ohms		+1.3dB
IHF dynamic power	8	170W (22.3dBW)
<small>(maximum short term power per channel)</small>	4	280W (24.5dBW)
	2	400W (26dBW)
Slew rate		>70V/sec
Damping factor <small>(ref. 8ohms, 50Hz)</small>		>200
Input impedance		60k + 500pF
Input sensitivity <small>(for rated power into 8ohms)</small>		1.1V
Voltage gain		x 28.3 (29dBW)
Frequency response	20Hz-20kHz	±0.2dB
	-3dB at	2Hz/100kHz
Signal/Noise ratio	ref 1 W	98dB
	ref. rated power	119dB
THD + SMPTE I.M. + IHF I.M.		<0.03%

Bridged (Monophonic) Mode

Continuous Average Power Output into 8ohms		400W (26dBW)
<small>(Minimum power per channel, 20Hz-20kHz, both channels driven, with no more than rated distortion)</small>		
IHF dynamic headroom at 8ohms		+1.5dB
IHF dynamic power	8	560W (27.5dBW)
<small>(maximum short term power per channel)</small>	4	800W (29dBW)

Physical Specifications

Dimensions <small>(W x H x D)</small>	435 x 146 x 383 mm
Net weight	14.2kg
Shipping weight	16kg

NOTE: NAD reserves the right to change specifications or design at any time without notice. All specifications are those in effect at time of printing.

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