M28 SEVEN CHANNEL POWER AMPLIFIER

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The Masters M28 Seven Channel Power Amplifier epitomizes the ultimate in what is possible with today's amplification technology. It is one of the very first amplifiers to employ Purifi's Eigentakt™ amplifier technology.

Rated conservatively at 200W per channel (8 Ohms) and well over 280W dynamic power (8 Ohms; all channels driven), the result is breath-taking, lifelike surround sound performance, be it from the latest action-packed film with tremendous dynamics or a subtle classical piece with delicate and detailed passages. The M28 can accept both balanced and single-ended inputs, and features high-quality binding posts for speaker connection. The compact dimensions of this highly energy-efficient design belie the massive amount of power available for the most demanding music and movies.

Purifi Hybrid Digital Amplification

The Masters M28 uses Eigentakt™ amplifier technology, manufactured by NAD in license from Purifi. This new technology, which NAD was the first to embrace for the M33 Masters Series BluOS Streaming DAC Amplifier, adds another level of precision by taking into account previously unknown effects of the output filter in the feedback loop and further refinement of the self-oscillating Class D technology as used by previous NAD HybridDigital™ designs. The result is a performance level that approaches the theoretical limit in measured performance, be it at whispering levels or at full power.

In common with the previous generations of NAD HybridDigital technology but unlike most Class D amplifier designs, the M28 is impervious to the loudspeaker load it is presented with, maintaining the same wide and even bandwidth response irrespective of the speaker's impedance and at the same time providing high current capability. The continuous 200W into 8 Ohms on tap for all channels driven at the same time and 560W dynamic power into 4 Ohms is testament to this.

Inherent to the Eigentakt™ technology is its very analogue-like behaviour in the unlikely event the amplifier is driven into clipping. Whereas many Class D designs can become unstable, Eigentakt™ behaves in a way similar to the benign way of clipping with instant recovery of well executed traditional Class A/B amplifiers.

The sonic character of the M28 only reinforces the story told by the numbers. This is an amazingly powerful and transparent amplifier bringing new levels of refinement and dynamics at any level.

FEATURES & DETAILS

- HybridDigital™ Purifi Eigentakt™ Amplifier
- FTC Power: 220W in 8 Ohms, 400W into 4 Ohms
- Rated Power: 200W into 8 Ohms, 340W into 4 Ohms
- Dynamic Power: 280W into 8 Ohms, 560W into 4 Ohms
- Balanced Line Inputs
- Single-ended Line Inputs
- 12V Trigger in
- Auto Turn-on
- Ground Lug
- Detachable AC Power Cord

Fully Balanced Audio ▼

The same efficient audio interface used by studios provides the highest level of signal integrity with the lowest noise floor.

Locking connectors and special interface electronics allow long cable runs without noise pickup or signal loss. All you get is awesome sound without the possibility of noise pickup or interference.

Effortless Power ▼

As our most powerful amplifier ever, the M28 can pump out over 560W into difficult loads to follow complex dynamic peaks in your movies and music. Everything from rim shots to asteroid explosions sound remarkably real and immersive.

The M28 has power reserves to meet the demands of the latest high-resolution digital soundtracks. Thanks to the advanced Purifi Eigentakt™ amplifier technology, all this monster power comes at a lot less cost than traditional technology and delivers more power and performance!

Specifications M28 ▾

All specs are measured according to IHF 202 CEA 490-AR-2008 standard. THD is measured using AP AUX 0025 passive filter and AES 17 active filter.

OVERALL SPECIFICATIONS	
FTC power, two channels	≥ 220 W (ref. rated THD, 8 Ohms , 20 Hz - 20 kHz, two channels driven)
	≥ 400 W (ref. rated THD, 4 Ohms , 20 Hz - 20 kHz, two channels driven)
Rated power, all channels	≥ 200 W (ref. rated THD, 8 Ohms , 20 Hz - 20 kHz, all channels driven)
	≥ 340 W (ref. rated THD, 4 Ohms , 20 Hz - 20 kHz, all channels driven)
Rated THD (250 mW to rated power, CCIF IMD, DIM 100)	≤0.003 % (ref. 20 Hz - 20 kHz)
IHF dynamic power	280 W 8 Ohms, (all channels driven)
	560 W 4 Ohms, (one channel driven)
Damping factor	> 750 (ref. 8 Ohms, 50 Hz and 1 kHz)
Input sensitivity	1.3 V (ref. rated power)
Input impedance	47 kΩ (Balanced)
Input Impedance (r and c)	23 kΩ (Single-ended)
Signal/noise ratio	> 102dB (A-weighted ref. 1W, Balanced)
	> 97 dB (A-weighted ref. 1W, Single-ended)
	> 124 dB (A-weighted ref. rated power, Balanced)
	> 120 dB (A-weighted ref. rated power, Single-ended)
Frequency response	± 0.1 dB (ref. 20 Hz - 20 kHz)
	- 3 dB at 3 Hz to 60 kHz
Time to go to Standby mode at no input signal	≤ 30 minutes
Standby power	≤ 0.5W
DIMENSIONS AND WEIGHT	
Gross dimensions WxHxD	435 x 156 x 380 mm (17 3/16 x 6 3/16 x 15")
Shipping Weight	21.2 kg (46.7 lbs)

Specifications are subject to change without notice. Check out www.NADelectronics.com for updated documentation or latest information about M28.