NAP 250

Product sheet

In production since 1975, the NAP 250 power amplifier has gained iconic status. This sixth-generation model delivers more power than ever before; state of the art engineering provides unrivalled performance, greater system-matching and flexibility. Designed in the UK, it is ready to drive the speakers of your choice — taking your music to new heights.

Key points

- **Can be used with legacy products** via the legacy range of cables.
- **Separate DR PSUs** for power amplifier, including the XLR input stage.
- **Eight NA009 Naim custom designed power transistors** as developed for Statement (4 for the PSUs and 4 for the output stages). Each mounted on ceramic insulators for ultra low capacitive coupling.
- **New triple transistor constant current source (CCS)** in delicate gain stage - uses a newly developed CCS for improved sound quality.
- **Party-proof:** new heatsink design responds to temperature fluctuation, keeping things cool.
- **20 minute auto power off** for legacy systems, will wake on detecting music (auto off can be disabled).
- **0.5W standby power**
  Using two internal power supplies; one is a high quality audiophile linear type, based on a large toroidal transformer. The other is a highly efficient SMPSU for 0.5W power consumption in standby during standby mode.
- **Soft-start power up sequence,** preventing the large toroidal transformers from tripping mains circuit breakers due to the large influx of voltage required.
- **3.5mm optical inter-product communications** for synchronised system control, preventing ground loops. This facility offers LED brightness and power control.
- **Eddy current divide** situated between speaker output terminals for improved sound quality.
- **Custom audiophile components** such as polystyrene capacitors in filter circuits for low dielectric absorption.
- **Through-hole components** reducing microphonies picked up via the circuit board fluctuations.

Specifications

Type	Power Amplifier
Power output	100 Watts 8Ω @0.1% THD+N (100W @0.1%) 190 Watts 4Ω @1% THD+N
Gain	+29dB
Inputs	2 x True balanced via XLR, 47kΩ 34kΩ singled ended via legacy adaptor lead
Frequency response	-3dB @ 1.4Hz to 100kHz
Burst power 2Ω (1kHz for 20mS, repeat 500mS IHF)	300 Watts 2Ω @1% THD+N
Peak current into 1Ω (1kHz 1mS)	+/-28 amps peak (780W peak power)
THD+N at 2/3rds full power 8Ω @1kHz	0.013%
Input signal for clipping	1V RMS
Signal to noise ratio ref 1W 8Ω A-weighted	91dB
Signal to noise ratio ref 100W 8Ω A-weighted	111dB
Cross talk	60dB
Damping factor into 8Ω	36
Passive consumption	26W (idle)
Standby consumption	<0.5W
Mains supply	115V or 230V, 50/60Hz
Dimensions (HxWxD)	$3^{5/8}$x17x$12^{1/2}$" (9.15x43.2x31.75cm)
Weight	37.04lbs (16.8kg)