



DPA-MA1 Mono Power Amplifier



Summary

- Direct signal coupling
- Surface mount components
- Unrivalled transparency
- Hybrid voltage amplifier
- Emotional, musically satisfying reproduction
- Unparalleled definition and musical performance
- Fully regulated dual power supplies
- Current Coupled Class A

Description

The DPA-MA1 embodies the philosophy of Deltec Precision Audio. It has taken years to develop, with the ultimate goal of bringing the emotion in music to the listener. The MA1 is an exciting new power amplifier that is radical and innovative. It represents a true breakthrough in subjective performance producing a level of transparency and warmth previously unavailable at any price. We urge serious audiophiles to audition the MA1 and enter into this new realm of believability. The only way to appreciate the performance of the DPA-MA1 is to listen to it and feel the difference.

All aspects of power amp design and construction have been carefully considered with no assumptions made since everything can potentially degrade the music. Every single component has been carefully considered and chosen for delivering the best performance. The care and attention to detail is not exclusive to the circuit design alone as each amplifier has been

individually hand built by craftsmen. This gives a solidity of construction which is missing from mass produced hardware.

At the heart of the DPA-MA1 Power Amplifier is the hybrid voltage amplifier - the DH-OA37. This Thick film hybrid, designed and developed by Deltec, offers many sonic advantages over conventional circuitry. The hybrid circuit is physically much smaller than conventional PCB layout which allows RF filtering and decoupling to be closer to active components. This reduces parasitic effects on circuit performance which in turn leads to a smoother, sweeter sound quality. The DH-OA37 is designed using a radical circuit architecture achieving a high gain bandwidth product compared to most amplifiers. This coupled with a highly linear open loop performance, virtually eliminates high frequency distortion giving an exceptionally smooth and treble quality.

The output stage in the DPA-MA1 uses Current Coupled Class A. This output stage topology offers a ten fold improvement in distortion by the use of a high speed Class A driver and current amplification circuitry. The loudspeaker output is via two WBT CE compliant binding posts.

The power supply plays a crucial role in the sound quality performance of the power amplifier, particularly with the problems associated with playing back digital sources. Digital often sounds hard and aggressive. This is partly due to high frequency RF noise that causes problems within DAC's, pre amplifiers and power amplifiers. The DPA-MA1 has RF filtering at every stage of the power supply including the output stage. This results in a much smoother, warmer and more natural sound quality with CD as a source. There are 2 power supply sections within the DPA-MA1, one separate power supply feeds the DH-OA37 and the other feeds the output stage. A specially constructed screened audio grade low noise toroidal transformer is employed.

Matching the performance achieved in the circuit design is also expressed in the creation of the enclosure. The softly contoured clean looking front panel of the DPA-MA1 is sculpted by precision machining from a solid billet of aluminium. The surface part is finished to a very high standard, which is then hand gloss painted and lacquered to a high luster. This gives depth and presence to the MA1 that it rightly deserves. The fabricated envelope and chassis are accurately laser cut and folded. They are finished in a fine finished anodised satinwood black.

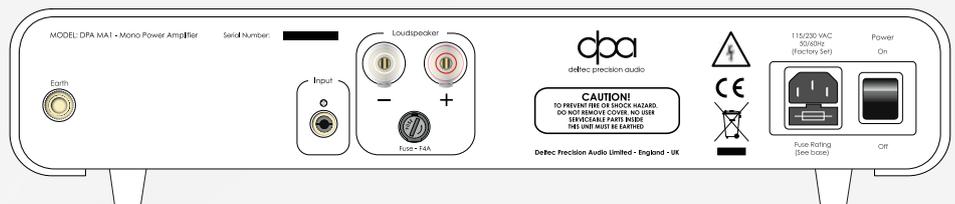
The enclosure is deliberately generously proportioned to allow the components space to breath and dissipate heat so that even after hours of listening at high levels the MA1 is still operating at its most optimum level of performance.

The following technical specifications are given for convention reasons only.

Specification

Input Sensitivity:	1Vrms for 60Wrms output (Gain +20.5dB)
Power Output:	>60W 8R, 120W 4R
Distortion:	@ 1 KHz <0.005% @ 60W
Damping Factor:	>10,000 at terminals
Size:	120x460x350 (HxWxD mm)

Deltec Precision Audio reserves the right to change any specifications without notice.



Designed, manufactured and hand assembled by craftsman and precision engineered within the UK.