



PATHOS

THE UNORTHODOX APPROACH

InPower





There is no better way to listen to music

InPol (Inseguitore Pompa Lineare - Linear Pump Follower) is a system patented by Pathos Acoustics which has enjoyed great success and won many awards.

Inpol devices have a special sonic personality obtainable only by means of this particular circuit design - fully balanced in Class A using a single solid state component in follower configuration, with high current gain and with voltage gain together.

The valve amplifier amplifies the input signal voltage and InPol supplies the current to drive the loudspeakers without any further amplification. In this way the signal is entrusted to the valves and becomes a true copy of the original, with all the quality, purity and harmonic content of the original.

This technology allows an increase in the theoretical output in pure Class A of between 25% and 50% together with a low output impedance which is fundamental for the damping factor, and further improved by the double InPol.

InPower monoblock power amplifiers represent the evolution of the HYPERLINK "<http://www.pathosacoustics.com/inpoleng.htm>" INPOL® circuit, originally created with the birth of the T.T. integrated amplifier.

The purpose of InPower project was to design an amplifier able to drive all loudspeakers. Even in spacious listening environments. All this with the same state-of-the-art sound quality which has been universally bestowed upon the T.T.

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Aims

How to achieve a wider tension swing without increasing distortion nor introducing any feedback whatsoever?

The solution

The main problem was solved by adopting an intrinsically balanced input stage which drives a HYPERLINK "<http://www.pathosacoustics.com/dinpoleng.htm>" Double INPOL® stage in balanced configuration.

By using a double triode tube - which is formed by two single triodes intrinsically identical to each other. since of course they were made with the same material, at the same temperature, in the same environmental condition and at the same time - we can achieve transfer curves which are almost identical to each other.

These two triodes are driven in opposite phase as to neutralise the curve distortion. This regards tension amplification.

As for current amplification. the same situation was obtained with a HYPERLINK "<http://www.pathosacoustics.com/dinpoleng.htm>" Double INPOL® circuit using selected NPN components. Better than expectations

Actually, the approach to this design was not an easy commitment: the risk seemed to be of getting a powerful amplifier without the refinement and musicality typical of the T.T..

But the results were superb!

InPower reproduces sound which is exquisitely "tube" in terms of musicality, warmth and transparency, with the speed and dynamics typical of the most respected solid state amplifiers.

As Pathos usually does, all components are carefully selected, the signal wiring is in Pathos pure silver cable, materials and craftsmanship are of the highest level and the industrial design is equal to the sonic performance.

In essence, InPower introduces a truly unique weaving of power and passion to the world.

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and external modifications
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THE UNORTHODOX APPROACH

Main Specifications:

Type: entirely balanced, HYPERLINK

"<http://www.pathosacoustics.com/dinpoleng.htm>

"Double INPOL® power amplifier in pure class A

Feedback: absent

Output power: 80 W @ 8 Ohm

Input impedance: 100 kOhm

Frequency response: 5Hz ÷ 60kHz ± 0.3 dB

Signal/noise ratio: 98 dB

THD: < 0.4% up to maximum power

Absorption at rest: 300 W