



**Type:**  
 Monoblock balanced amplifier, double INPOL® circuit, pure class A, zero feedback.

**Main specifications:**

Output power:	180W @ 8 Ohm
Input impedance:	100 KOhm
Frequency response:	1Hz ÷ 80KHz (-1dB @ 40KHz)
THD:	0,01% @ 1W 0,2% @ 50W
Damping factor:	25
Rise time:	6µs
Fall time:	6µs
Slew rate:	11V/µs

Dimension: 68x30x44cm  
 Weight: 70Kg

Tubes: 2x ECC83 12AX7  
 1x 6H30

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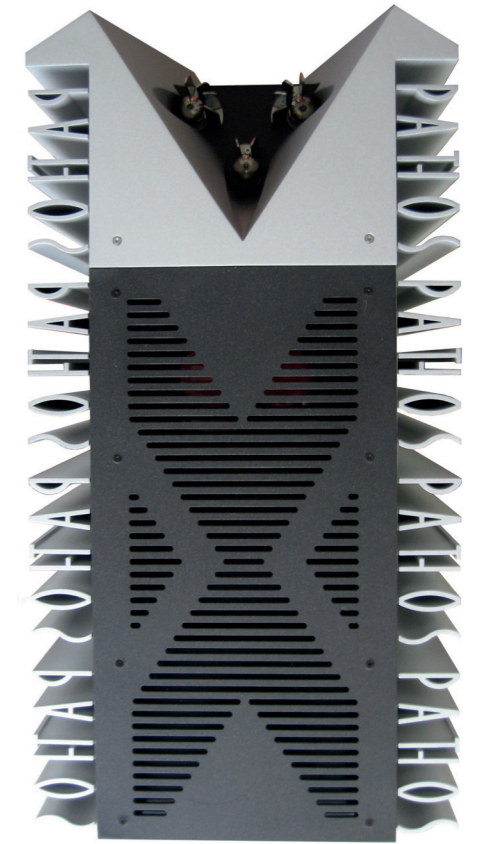
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THE UNORTHODOX APPROACH



# ADRENALIN

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THE UNORTHODOX APPROACH

The Adrenalin amplifier represents the point of arrival of the INPOL (Inseguitore a Pompa Lineare, Linear Pump Tracker) concept. The monoblock delivers 200W of power on a load of 8 Ohm and use a layout tested many times by Pathos. In fact, this is a balanced stage, which means that each amplifier is made of two power stages connected with INPOL configuration, intrinsically functioning in class A.

We like to underscore that an INPOL stage can work only in class A.

It is neither a push-pull circuit (where it is possible to choose how deep to polarize the final stage during the phase of design), nor a single-ended stage; considering the presence of a reactive element that works in symbiosis with an active device (in this case a group of mosfet connected at common drain).

INPOL represents an alternative between the two configurations; hence, this topology created and patented by Pathos has properly gained by now its place in the Gotha of Hi-End.

This power buffer with unitary gain, is controlled by a tube amplification stage using three double triodes, two ECC83/12AX7 and one 6H30.

The first stage generates voltage amplification based on differential totem pole with two 12AX7.

The second is a buffer with a common anode with the 6H30 that has the function of driving two groups of power mosfets.

The signal on the two outputs amplified and out of phase between them is delivered to two buffers with INPOL technology.

We have created a very powerful, extremely, linear amplifier without using global feedback.

Is difficult to describe the sizing of this apparatus's power part; you should see it to fully understand the creativity of Pathos technicians and designers (as if we try to describe the Missouri battleship!).

The polarization of the two power stages is at a very high level: it allows a delivery of constant electrical current to avoid interface problems with diffusers.



In this machine, technicians will find a series of outstanding details in the finesse of the design. Starting from a power supply (completely stabilized for the signal stages on anodic voltage) that has a built-in C-multiplier in order to obtain the maximum filtering, on the voltage current generators and on the ignition voltage of filaments usually considered less noble (but not by Pathos). The main important feature that distinguishes this project is the sensitive power supply that has to deliver a continuous electrical current of more than 12 A.

Because the amplifier is at zero feedback, is necessary to use power supplies, filtered, in order to avoid hum noise in the output. Pathos, as usual, did not care about the cost of components and has used an optimum inductive/capacitive power supplies able to

filter perfectly the electrical current of the two power stages (for instance - the weight of filter reactance is 12 Kg).

The peculiar characteristic of the apparatus is that of a tube amplifier with a very sensitive and refined timbre combined with an amazing output capacity.

It seems that Pathos designers and technicians have achieved the target of obtaining the "mirage of an iron fist in a velvet glove".