

Thrax Heros

Class A Hybrid Power Amplifier



Heros is a real alternative to tube amplification. With it's unusual hybrid transformer loaded circuit, it is essentially is a "solid tube" design.

Features

- Tube amplifier architecture with simplest signal path
- Transformer coupled input and output
- JFET/MOSFET cascode output devices
- Silicon Carbide diodes in power supply
- Microprocessor control
- Zero negative feedback
- Selectable gain
- Selectable speaker impedance
- Audiophile 5687wa tube used
- Fully balanced differential operation
- Both RCA and XLR inputs
- Compact chassis built like a tank
- 100W Pure ClassA power



Technology

Based on a compound device in differential push pull arrangement with transformer loaded output stage. It achieves almost double the efficiency of a normal Solid State Class A design.

Inherently DC free input and output and many other benefits are taken advantage of in our implementation.

A fully differential architecture using an input phase splitting transformer and summing the signal back at the push pull output transformer completely isolates the gain devices of the amplifier from any external influences.

The design being fully differential is immune to power supply noise and cancels any common mode disturbances and even harmonics.

The power supply for the output stage uses a new breed of rectifier diodes made of a new material called Silicon Carbide. They have no reverse current

and switching losses.

When properly applied the rectifier produces no EMI/RFI in the chassis. The result is an amplifier free of grain and fuzziness in the highs, giving new meaning to transparency and tone. We use the well known 5687WA audiophile tube and the highest grade audio transformers.

The whole chassis is a heat-sink to accommodate the moderate amount of heat generated. Heros is the most compact 100 watt class A amplifier available.

The chassis is designed to provide a vibration free structure to house the components. All the electronics are enclosed in separate compartments to stop interference between components.

Blending this with stylish aesthetics produced a beautiful metal sculpture simply known as Heros.

Specifications

Inputs

- 1 unbalanced RCA
- 1 balanced XLR

Output Power

- 100W in 4Ω/8Ω

Gain

- 15-20db

Power supply

- 115 or 230 V

Power consumption

- 230W

Weight

- 30Kg

Dimensions

- 210Wx400Dx230H mm

Tube compliment

- 1x 5687 amplification

