Thrax Teres

Transformer Coupled Hybrid Power Amplifier

Teres delivers tube clarity and tone with real might and power.
Unusual but true...

Features

- Tube/Fet hybrid architecture with simplest signal path
- Interstage transformer coupled
- Extra long life input tube
- Shunt regulated constant current power supply
- JFET/MOSFET cascode output modules
- Solar cell based bias control of output stage
- Silicon Carbide diodes in power supply
- Special lower inductance screened power transformer
- Microprocessor control
- Both RCA and XLR inputs
- Solid chassis built like a tank
- Available as Monoblock or Stereo

Technology

Single ended tube input stage loaded with a phase splitting transformer controlling 2 separate single ended amplifiers running out of phase for output. There is no output transformer in our arrangement but the output signal sums in the connected load.

The tube handles all the voltage gain needed. It uses a new generation or our choke rectified shunt regulated power supply ensuring optimal and stable noise free operating point.

The output stages power JFET cascodes form a bridge that when unbalanced by the input signal via the 2 transformer windings restores balance by adjusting current conduction through the load. The 2 output stages actually enclose the load in their control loops and try to correct each other's errors reducing the distortion to negligible amounts. Leaving only the “character” of the input stage while being able to drive any load.

Not sharing a common reference point apart from the load itself makes the output stage self correct for any error produced. Result is an amplifier capable of extreme power handling while delivering exquisite smoothness and low level resolution.

The driver stage being isolated by the interstage transformer is not influenced in any way by the output stage behavior maintaining tone color and resolution at all powers and loads consistent.

Having the output stages floating around the load prompted for the use of a unique biasing technique powered by solar cells. This was the quietest galvanically isolated power we could come up with. Using opto-electrical conversion we control the bias by adjusting light intensity in the control circuit.

Teres is an example of modern technology solving age old problems allowing us to go a step beyond.

Specifications

Inputs
- 1 unbalanced RCA
- 1 balanced XLR

Outputs
- 250W in 8Ω
- 350W in 4Ω

Power supply
- 115 or 230 V

Power consumption
- Max.700W

Weight
- 35Kg

Dimensions
- 340Wx400Dx230H mm

MONO

STEREO

Thrax