

Dyad S400

Stereo Hybrid Power Amplifier



Dyad S400 is the world's first true fully balanced hybrid power amplifier in which voltage amplification is achieved by all vacuum tubes while current amplification by solid-state transistors. It employs patented *Dual Balanced Feedback Topology* (DBFT) and *High Current Buffer Amplifier* (HCBA).

S400 is a stereo power amplifier that delivers over 200W to a 8-ohm load and 400W to a 4-ohm load per channel. Vacuum tubes (12AU7 x 2, 6922 x 1 per channel) are used for voltage amplification. Current amplification is handled by solid-state transistors packed HCBA that produces unity voltage gain but tremendous high current capacity. Due to the balanced nature, two HCBA are used per channel.

The DBFT has proven to be an excellent balanced design with astonishing sound since developed in 2007. The dual balanced feedback loops can easily allow the performance of the power amplifier to be optimized. Since voltage amplification is handled by all vacuum tubes, while HCBA have unity voltage gain, the mids and highs of the audio spectrum have retained very much to a tube power amplifier. But S400 has much better bass performance over tube power amplifiers by means of tremendous current drive provided by sold-state transistors.

"A state-of-the-art fully balanced hybrid power amplifier sets vacuum tubes and solid-state transistors to sound their best"

Patented *Dual Balanced Feedback Topology* (DBFT) and *High Current Buffer Amplifier* (HCBA)

Pure class-A vacuum tubes for signal amplification

High current buffer amplifier for current amplification

Premium grade audio electronic components

Protect output against over-current, DC offset and over-heat



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PRODUCT DESIGN

Hybrid stereo power amplifier employed with patented *Dual Balanced Feedback Topology* and *High Current Buffer Amplifier*

SIGNAL TUBES

12AU7 x 2, 6922 x 1 per channel

OUTPUT POWER

200W x 2 for 8Ω load
400W x 2 for 4Ω load

DISTORTION

0.02% @ 10W, 8Ω (1kHz)
0.1% @ 200W, 8Ω (1kHz)

VOLTAGE GAIN

31dB

SIGNAL TO NOISE RATIO

> 90dB

INPUT IMPEDANCE

100kΩ (single-ended input)
200kΩ (balanced input)

DAMPING FACTOR

>150

OUTPUT CURRENTS

25A (continuous)
50A (peak)

INPUTS

One set of balanced inputs
One set of single-ended inputs

BANDWIDTH

20Hz to 20kHz

IDLING POWER

230W

MAXIMUM POWER CONSUMPTION

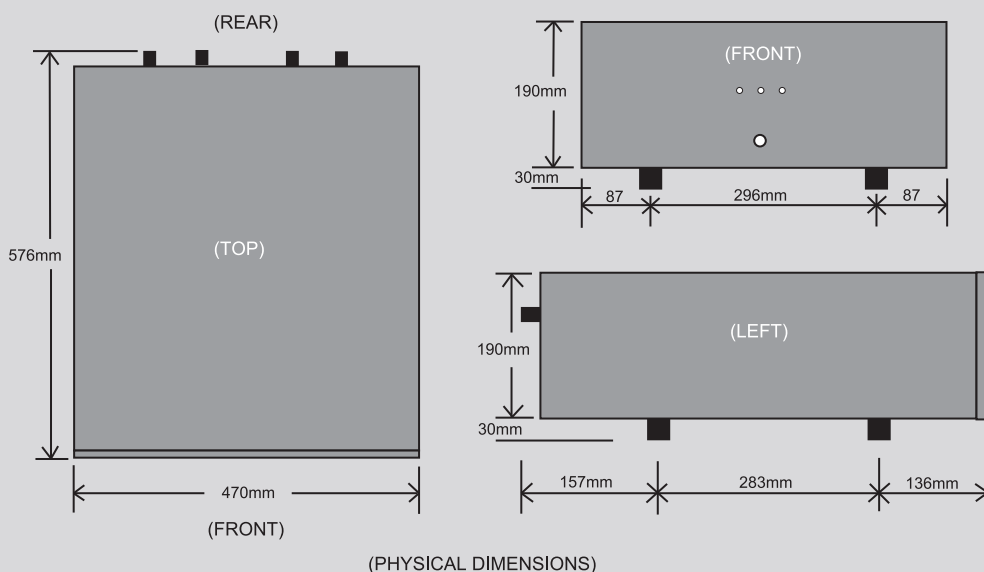
1000W

DIMENSION

220 X 470 X 576mm (H x W x L)

NET WEIGHT

43kg /95lbs



(PHYSICAL DIMENSIONS)

