

IS250

Stereo Integrated Amplifier



IS250 is a fully balanced high performance stereo integrated amplifier. It contains a stereo solid-state power amplifier, a tube preamplifier and a 32-bit audio DAC. IS250 offers exceptional performance in terms of transparency, dynamic and extraordinary imaging capability at its price range.

The power amplifier employs a new power amplifier topology that comprises independent voltage amplifying stage and current amplifying stage. These two stages are optimized individually before they are put together to form the power amplifier. To improve current amplification, a patented buffer amplifier is used to implement the current amplifying stage. The IS250 delivers 250W to a 4Ω load per each channel.

The tube preamplifier employs all-tube pure Class-A single-stage fully balanced design. 12AU7 and 6922 vacuum tubes are used for signal amplification. No semiconductor device is located in signal path. Additionally, no global feedback is used so that the purity of the musical signals is preserved.

The audio DAC processes USB 2.0 signals up to 32-bit 384kHz sampling rate and takes DSD64 and DSD128 format. For SPDIF inputs, it performs up to 24-bit 192kHz sampling rate.

"A high performance stereo integrated amplifier offers a solid-state power amp, a tube preamp and a 32-bit audio DAC."

A patented solid-state power amplifier containing independent voltage amplifying stage and current amplifying stage

An all-tube pure class-A vacuum tube preamplifier with no global feedback

An audio DAC processing USB 2.0 signals up to 32-bit 384kHz and taking DSD64 and DSD128 format

Premium grade audio electronic components

Very low noise power transformers and precision DC regulated power supplies



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PRODUCT DESIGN

A stereo integrated amplifier contains a solid-state power amplifier, a tube preamplifier and a 32-bit audio DAC.

1) POWER AMPLIFIER

OUTPUT POWER

125W x 2 for 8 Ω load
250W x 2 for 4 Ω load

DISTORTION

0.02% @ 10W, 8 Ω (1kHz)
0.1% @ 125W, 8 Ω (1kHz)

BANDWIDTH

20Hz to 20kHz

DAMPING FACTOR

>150

SIGNAL TO NOISE RATIO

> 95dB

2) PREAMPLIFIER

SIGNAL TUBES

12AU7 x 1, 6922 x 1 per channel

DISTORTION

0.05% (@ 2V/100k Ω load)

SIGNAL TO NOISE RATIO

> 90dB

INPUT IMPEDANCE

> 136k Ω (balanced input)
> 68k Ω (single-ended input)

INPUTS

Two sets of XLR analog input
One set of RCA analog input
One set of USB or SPDIF digital input

OUTPUTS

One set of line level output (balanced)
One set of preamp output (balanced)

3) DAC

DIGITAL INPUTS

USB: Up to 32-bit 384kHz sampling rate,
DSD64 and DSD128 format

SPDIF: up to 24-bit 192kHz sampling rate

DIGITAL OUTPUT

SPDIF: up to 24-bit 192kHz sampling rate

DISTORTION

0.005% (balanced output)

SIGNAL TO NOISE RATIO

> 115dB (balanced output)

4) GENERAL

MAXIMUM POWER CONSUMPTION

600W

DIMENSION

220 x 470 x 475mm (H x W x L)

NET WEIGHT

32kg / 70 pounds

(Specifications subject to change without prior notice.)

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