

Clean Power Supply PS-1250



Accuphase Laboratory, Inc.

Accuphase Clean Power Supply series is an epoch-making audio product that enables all users to improve their power supply quality by forming an ideal power supply waveform with precise analog signal processing. It shows a terrific performance to obtain great sound and image quality.

After launching PS-1200 in 1997, Accuphase has been making improvements one after another, as known as PS-1200V, PS-1210, PS-1220, and PS-1230.

Accuphase makes PS-1250 known to the public, the 6th generation Clean Power Supply succeeding PS-1230.

The main features of PS-1230 are...

- Precise reference signal generator
- Low power consumption
- Low Total Harmonic Distortion

Exterior

- Color liquid crystal display
- Waveform display switch



PS-1230



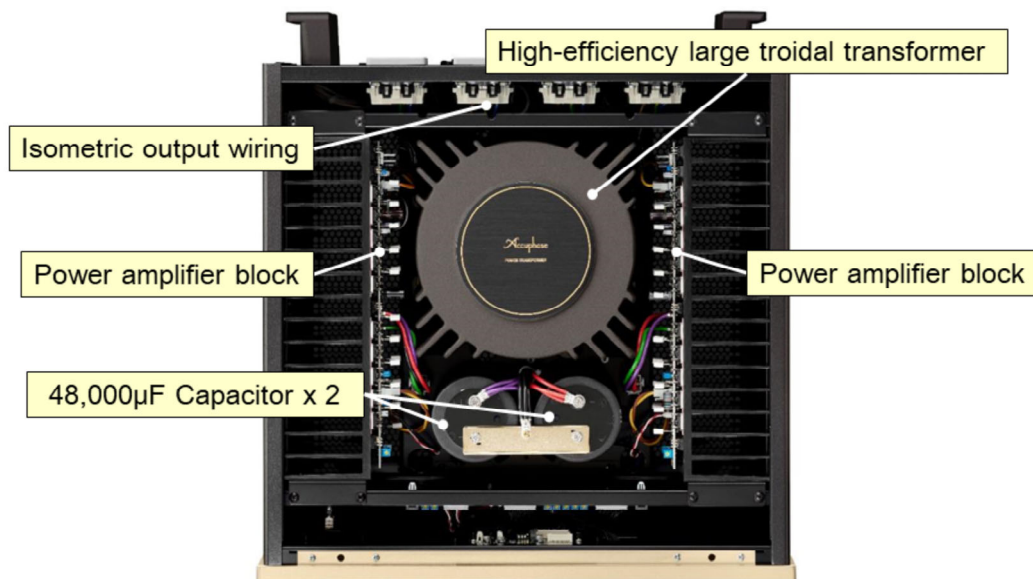
PS-1250

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PS-1250 newly adopts the color liquid crystal panel, It clearly displays the input/output power waveform.

By switching the display switch, you can also confirm the total power consumption, the input/output voltage, or the input/output distortion ratio.

Internal View



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PS-1250 has a symmetric internal structure same as Accuphase stereo power amplifiers.

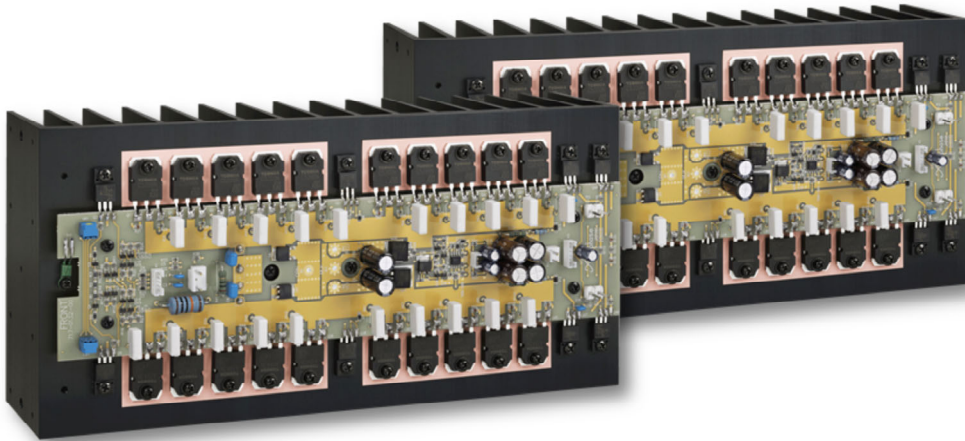
A massive power supply section sits at the unit's center, and power amp blocks are on both sides.

These two power amp blocks are balanced connections which low output impedance.

All the internal output wires are isometric and set at the same length. It helps the electric performance and sound quality of each AC outlet keep the same level.

Power amplifier blocks

- Output stage with 20-paralleled bi-polar transistors
- Balanced connection for internal signal path



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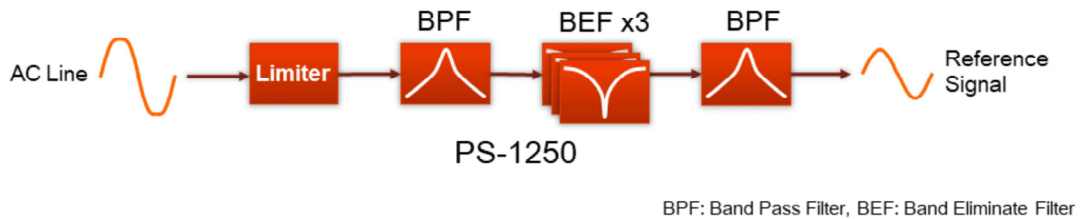
Power amp blocks consist of 2 circuits of 10-paralleled bi-polar transistors output stages and are fully parallel driving.

It leads to the success of high peak output current and low output impedance.

The inputs to each power amp section are balanced connections.

Reference signal generator

- Guaranteed Total Harmonic Distortion
 - PS-1250: 0.08%



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Reference Signal Generator is the circuit that eliminates the noise and distortion components in AC line signals with filters and generates the reference signals for waveform shaping.

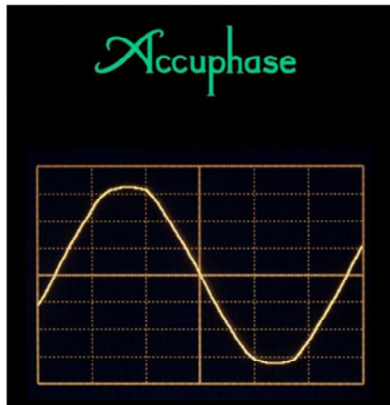
PS-1250 has evolved this Reference Signal Generator much more precisely.

PS-1250's configuration is that two stages of the Bandpass Filters remove undesired out-of-band signals. Then, the three stages of the Band Eliminate Filters also remove the harmonic component.

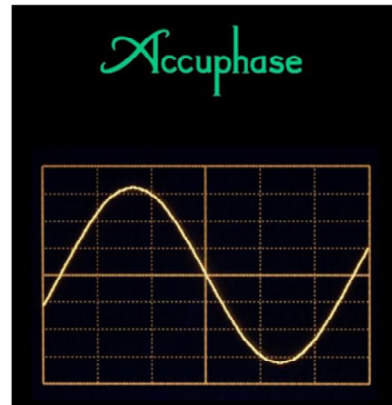
These two features contribute to the low distortion effects on the reference signals.

Waveform display function

- Waveform display function with color liquid crystal display



Input waveform



Output waveform

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The color liquid crystal display shows the input/output waveform.

The waveform display function enables you to compare the input waveform from the wall socket with the output waveform compensated by the PS-1250.

The power source waveform from the wall socket in ordinary houses is a deformed sinewave due to distortion.