

Vacuum Tube Pre-Main Amplifier

Aurorasound, New Product

HFSA-01 High Fidelity Stereo Amplifier



Product Outline

HFSA-01 is a hybrid pre-main amplifier utilizing the advantages of both vacuum tube and semiconductor. The tube EL84 delivers 14W + 14W power output. The model is equipped with bass and treble controls. The input stage has a built-in phono equalizer for MM-type cartridges, along with 3-channels of RCA unbalanced input terminals.

This model accepts speakers with 4 Ω to 8 Ω impedance. In addition, it has a headphone output.

HFSA-01 is designed with orthodox configuration, however, it fulfills the basic requirements such as sound quality and overall performance for a wide range source from high-resolution digital to analogue records that any generation and age demands.

The front panel is ornamented with Mahogany wood on both sides to enhance the retro appearance producing a rather relaxing atmosphere for more enjoyable audio life.

Contact
Aurorasound Inc. www.aurorasound.cjp
Tel +81-45-953-6708, Email: karaki@aurorasound.jp

Feature

The output vacuum tube EL84, a pentode equivalent to 6BQ5, is operated in push-pull configuration delivering extremely low distortion and excellent frequency characteristics with ultra-linear connections. The driver for EL84 is a well-known Texas Instruments OPA604A, a high precision audio Op-Amp. Aurorasound developed a perfect phase inverter circuit with OPA604A to drive the push-pull operation in the most ideal way.

The tone-control section employs a CR-type for easy adjustments to achieve more rich bass and comfortable treble to meet listeners' sound taste even with small-size speakers.

The phono equalizer uses Linear Technology's semiconductor to achieve an excellent S/N characteristic with NF-type circuit configuration.

The power supply section is completely isolated between the vacuum tube and semiconductor to completely eliminating any interferences regardless of volume level and frequency range. The rectifier is of the super low noise Rohm's silicon carbide diode.

The output transformer and power supply transformer are custom designed by Aurorasound, and manufactured by a Japanese company. This model employs carefully selected high-quality capacitors and resistors, as well.

Sales start April/30, 2023

Rear Panel

Input
PHONO-MM
CD
LINE-1
LINE-2

Output
Speakers
8Ω
4~6Ω

IEC AC Inlet

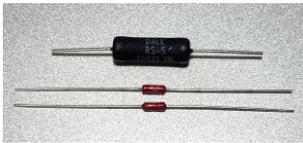


Inside
EL84
Tubes



Mahogany wood
side fender

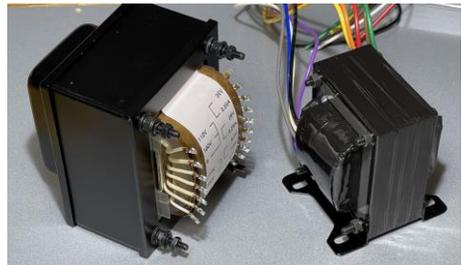
Seismic isolation for
vacuum tubes protection



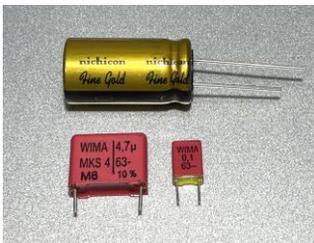
DALE wire wound resistor
PPR metal foil audio grade
resistor



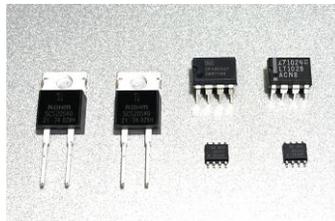
ALPS volume pot



Large size iron core transformers.
Aurorasound custom design



Nichicon Electrolytic Capacitor
WIMA film capacitors

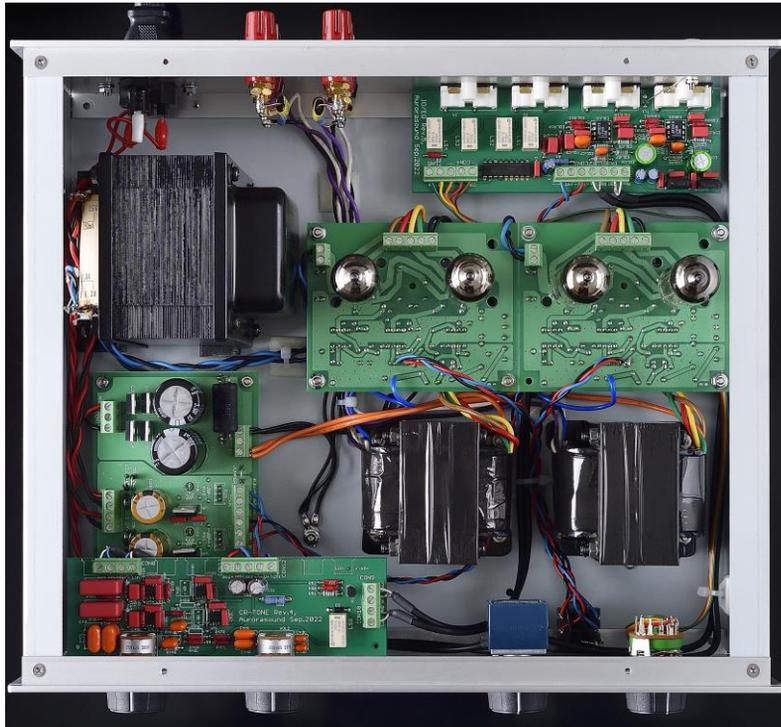


ROHM Silicon carbide rectifier diode
Texas Instruments, Linear Technology
OPA604A, LT1028 OPAMP ICs

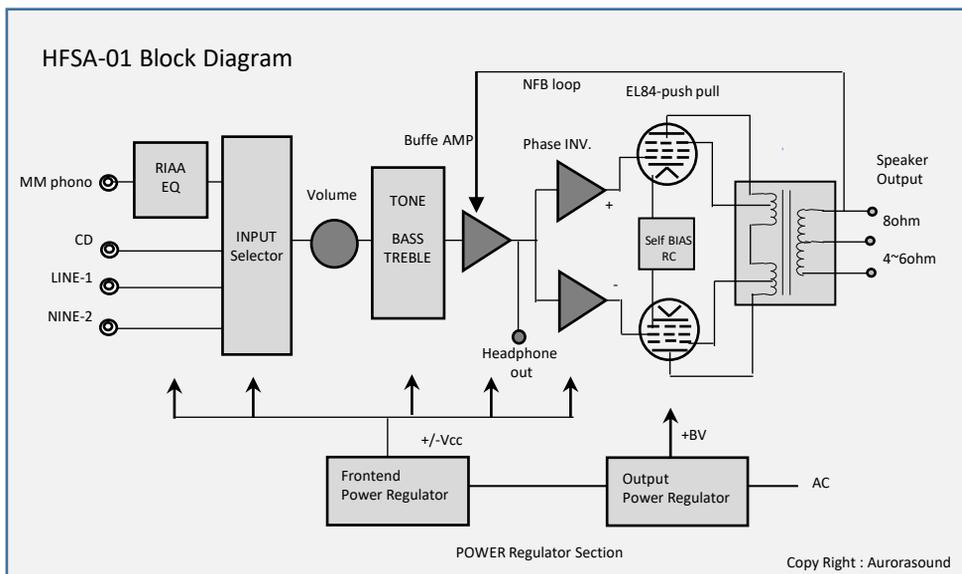


Solid aluminum
foot insulators

Inside view



Block Diagram



Specifications

Input	Phono-MM, Gain40dB, Cartridge load resistance 47kΩ, RIAA +/-1 dB
TONE Control	BASS +/-12dB, TREBLE +/-12dB,
Output	Max 14W + 14W at 8Ω speaker
Frequency response	10Hz ~ 40kHz, -3dB, Tone Flat
THD+N	0.08%, 1kHz, 2W, A-weighted
SNR	93dB, LINE IN-OUT
Functions	TONE control pass DIRECT SW, Stereo/Mono, Headphones output
AC voltage	USA model AC120V, Europe/Asia model AC220V, 240V
	Power consumption 150W
Size, Weight	W360 x D320 xH145mm max , 10.3kg

