

Abundant use of high-grade components pursued for both their properties and audibility

Securing signal clarity and minimizing transmission loss maximizes pure amplifier performance. Rigorously selected components are used to satisfy to the greatest extent possible such requirements for power amplifiers. Highly reliable XLR input terminals that boast contact performance and Esoteric's original RCA input terminals are just some of those implementations. WBT nextgen WBT-0710Cu speaker terminals are also employed. These conductor cores utilize pure copper with gold plating to achieve high conductivity and low resistance. Moreover, the A-02 employs high-grade components such as electrolytic capacitors and transistors with excellent high frequency characteristics achieved through property examination and repeated trial listening.

Ingenious chassis structure that intricately fuses precision and vibration suppression

Internal circuit components are separated into dedicated inner compartments for each circuit, partitioned by 2 mm steel walls. The bottom chassis utilizes 5 mm thick steel for additional isolation that prevents interference between circuits and minimizes the adverse effects of resonance caused by internal and external vibration. The extremely robust inner chassis is composed of a 20 mm thick aluminum front panel and 5 mm thick top. It is also supported at four points on Esoteric-original pinpoint feet. These and other measures help to keep the housing highly rigid and resonance-free. What's more, an approx. 41.5 kg weight (91.5 lbs.) speaks volumes for the rigidity of the A-02.

Tranquil yet strong expression in a design that evokes rich musical qualities

A design idea that shows off high-end aspirations through and through comes into being in a simple body form. That form incorporates structural beauty, featuring bold design with delicate shadowing as well as black alumite-processed large heat sinks symmetrically located on the left and right sides of the housing. A sense of unity with Esoteric's high-end lineup is also projected, bringing about unrivaled presence when putting together an audio system.

Specifications

Speaker Outputs

Rated output power	STEREO	200 W + 200 W (1 kHz, 8 Ω)
		400 W + 400 W (1 kHz, 4 Ω)
	BTL	800 W (1 kHz, 8 Ω)
Maximum output power	STEREO	250 W + 250 W (1 kHz, 8 Ω) (JEITA)
		500 W + 500 W (1 kHz, 4 Ω) (JEITA)
	BTL	1,000 W (1 kHz, 8 Ω) (JEITA)
Frequency response		5 Hz - 100 kHz (1 W, 8 Ω, ±1 dB)
Signal-to-noise ratio (S/N)		117 dB or more (JEITA)
Total harmonic distortion		0.009 % (1 kHz, 8 Ω, Rated output power)
Minimum required impedance		STEREO 4 Ω / BTL 4 Ω
Gain		28 dB

Analog audio inputs

Jacks	RCA jacks 1 stereo / XLR jacks 1 stereo
Input impedance	RCA 150 kΩ / XLR 320 kΩ

General

Power supply	AC 230V 50Hz / AC 120V 60Hz / AC 220V 60Hz
Power consumption	550 W

External dimensions (W x H x D)

445 x 220 x 430 mm (17 1/2" x 8 5/8" x 16 15/16") (including protrusions)

Weight 41.2 kg (91.5 lb)

- This product is available in three different power supply variations shown in the chart above.
- Make sure that the voltage shown on the rear panel matches the AC line voltage in your area.
- The shape of the AC inlet and plug of the supplied power cord depends on the voltage rating and destination country.



ESOTERIC

Stereo Power Amplifier A-02



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Please note that Esoteric products are available at limited distributors in respective countries.

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International Audio Society of JAPAN

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MasterSoundWorks

Audio expression, symphonic beauty, artistic passion, a concert hall spatial feel, the excitement of the audience. Esoteric's Master Sound Works is an audio product concept that recreates all of the music information in original master recordings with the most state of the art technology available today.

English version

Your invitation to where the artistry of music is created

MasterSoundWorks

A true stereo power amplifier infused with technology and know-how perfected in professional studios: The A-02

The passion of the moment music is created is passed from the recording site to the listening room. In that, you the listener share a musical experience with the creators. It is a bridge to just such a euphoria that Esoteric entrusted this new model of power amplifier to provide.

The A-02 stereo power amplifier is infused with know-how gained from professional studio devices based on the unique Master Sound Works concept. We pursued sound quality befitting original master recording playback through collaboration with studio engineers as an extension of design ideas of the highly esteemed A-03. Moreover, we adopted technologies and innovative measures to improve speaker driving power expected in professional applications.

Lavish application of high-level craftsmanship was made with a focus on the sound desired by artists and engineers. That way, music enthusiasts can be treated to the creators' commitment to music without any loss of scale and quality.

Stand-out drivability for clearly reproducing even the most subtle nuances of music

A power amplifier that emits high-quality output is the source for reproducing a musical experience featuring beautiful resonance swelling within the reverberation of crashing waves and vitality. Esoteric's A-02 stereo power amplifier continuously balances maximum drive power and natural timbre regardless of the size and efficiency of loudspeaker selection. This way, the A-02 can portray in full the dynamism and delicacy inscribed in the original master recordings.

Esoteric MSW* Class AB power amplifier and blocks with dual mono architecture

The MSW class AB power amplifier blocks are the culmination of Esoteric amplifier design technology that pursues master recording sound playback. The A-02 employs such blocks in a dual mono architecture where they are mounted independently by channel. Sound quality approaching that of monaural power amplifiers is thus achieved in a stereo amplifier size.

* MSW=Master Sound Works

Five bipolar devices in parallel push-pull configuration to attain 200W+200W (8Ω) rated output

Carefully selected bipolar transistor devices boasting a withstanding voltage of up to 230V are employed, with each device able to supply 17 amps for continuous operation and 34 amps for instantaneous operation. LAPT* devices featuring excellent high-frequency characteristics and that create powerful yet fine timbre are mounted in a 5-parallel push-pull configuration for each channel to support rated output of 200W+200W at 8Ω or 400W+400W at 4Ω in class AB operation. These devices help to achieve both high power to drive all kinds of speakers to their fullest with excellent power linearity.

* LAPT=Linear Amplified Power Transistor

Simple two-stage amplification drive stage for dynamic natural sound quality

The drive stage of the A-02 is a simple two-stage amplification drive. By keeping the signal path as short as possible, stability is increased for natural and highly dynamic sound quality with miniscule amount of any negative feedback.

High-capacity toroidal transformers for robust music playback supported by powerful power supplies

Broad dynamic range and playback with an overwhelming feel of power spice up separate amplifiers. The A-02 has highly efficient high-capacity toroidal transformers for excellent sound quality mounted on power supplies that make up the core of a power amplifier. Through this design, the amplifier can powerfully evoke music in its entirety.



Independent power source voltage amplification stage that dramatically improves sound resolution

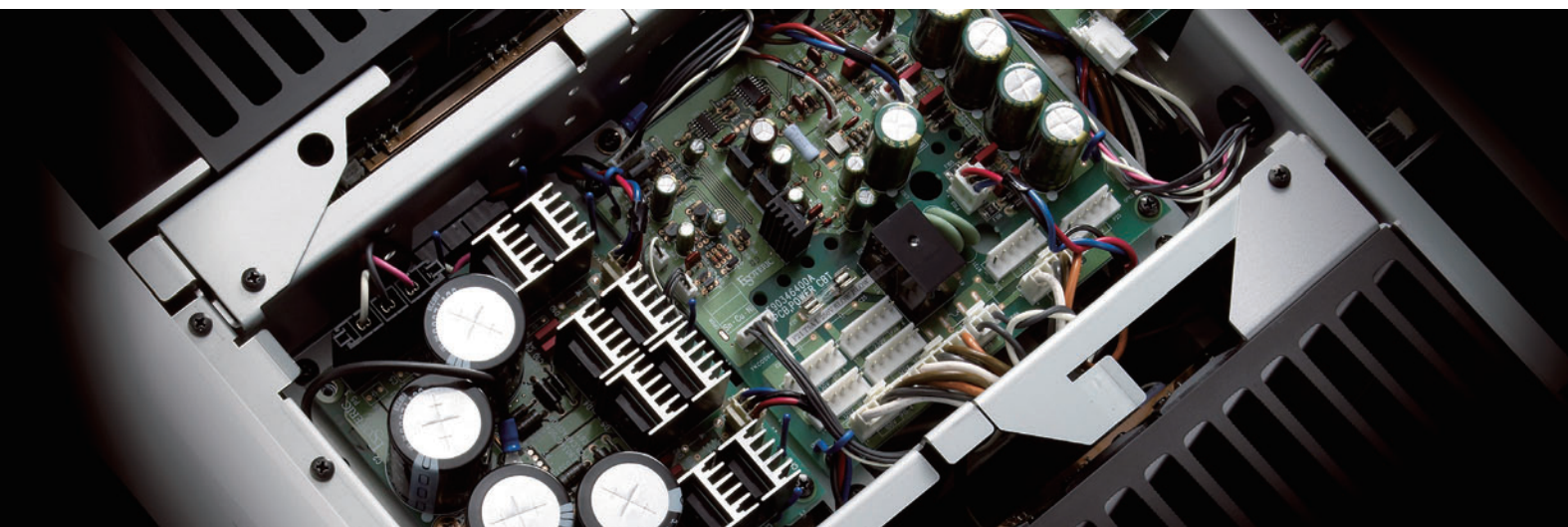
Power from the drive stage supplies to speakers often fluctuates sharply. To prevent that from adversely affecting operation, a voltage amplification stage receiving weak signals from the preamplifier (stage before drive stage), is mounted with special toroidal power source transformers and power circuits independent from the drive stage. With this implementation, a very stable power supply to the previous stage is secured, increasing the fine expressive power and resolution of each instrument even in the climax of a full orchestral performance.

Low frequency range playback with feel of power and speed: another area where pro studio know-how is exhibited

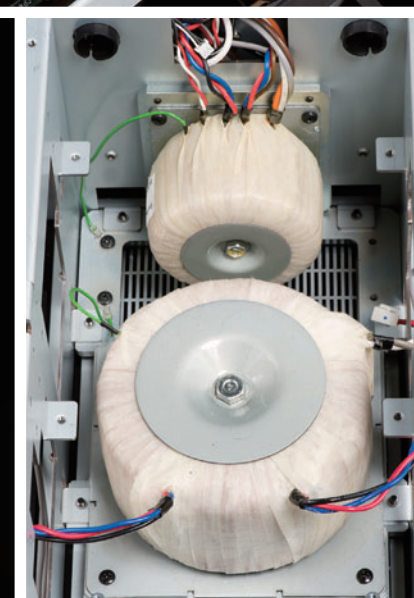
A powerful damping factor of 1,000 is achieved with miniscule negative feedback by combining high-performance bipolar transistors with a short signal path two-stage amplification design. Precise and powerful driving force in the drive stage gives easy damping even with large diameter woofers to provide low frequency playback with excellent transient properties and an abundant feel of speed. The beautifully taut low frequency range makes music even more open and dynamic.

Ability to use as a colossal 800W monaural power amplifier with BLT connections

Output of 800W can be gained with an 8Ω load if using the A-02 as a monaural power amplifier in BLT mode. This option enables an even more magnificent sound system to be built.



Dual mono architecture
Esoteric MSW Class AB power amplifier blocks



Large output transistors for drive stage (top)
Schottky barrier diodes for current
amplification stage (bottom)

High-capacity toroidal transformer
power supplies
Two independent power supplies
for drive and input stages

Stereo Power Amplifier **A-02**