Specifications

Rated output power
300W (8Ω)
600W (4Ω)

Maximum input power
1200W (2Ω)

Frequency response
S/N: 120dB (A-weighted)

Signal-to-noise ratio (S/N)
120dB (A-weighted)

Total harmonic distortion
0.005% (1kHz, 8Ω, 1W)

Gain
34dB

Damping factor
1000

Analog audio input jacks
RCA × 1
XLR × 1

Input impedance
RCA: 1MΩ
XLR: 1MΩ

Power supply / Power consumption
AC 230V 50Hz / 430W (no signal: 44W)
AC 120V 60Hz / 520W (no signal: 58W)
AC 220V 60Hz / 430W (no signal: 44W)

External dimensions (W x H x D)
491 × 221.5 × 535mm
19 3/8” × 8 3/4” × 21 1/8”

Weight
62kg (136 3/4 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.

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.
Our goal was to push the outer limits of what a power amplifier can be. We arrived at the ideal manifestation of audio engineering. For those searching for a profound experience of sound and music, this is a masterpiece that knows no compromise or equal. The culmination of all of ESOTERIC’s knowledge and skill is distilled within this, the new summit of our expertise.

There is a musical term that celebrates the majestic: Grandioso. The perfect name for the new M1.
Music overflowing with life. Spacious sound that can only be achieved by a high-power amplifier. That moment when the sound is released from the speakers and the presence of the audio system disappears from before your eyes. This is the most thrilling moment of the listening experience. The overwhelming feeling of the spaciousness of sound and sense that the sounds are being generated live. The music by vibrantly setting all of the sounds free, that moment when the sound is released from the speakers and the presence of the audio system disappears from before your eyes. This is the most thrilling moment of the listening experience. The overwhelming feeling of the spaciousness of sound and sense that the sounds are being generated live. The music by vibrantly setting all of the sounds free.

1200 watts at 2 ohm power linearity to amplify to the limits of sound dynamics. Speaker impedance changes drastically along with changes in the frequency of the sound being played. In cases such as continuous heavy bass or the impact and subsequent silences of a percussion instrument, impedance can abruptly drop and cause a situation where there is almost no load. The full expression of sound dynamics is not possible with these sudden changes in load unless there is a current supply surplus power of 3300W in parallel configuration, with the shortened voltage charge time contributing to high-speed sound quality.

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High-capacity custom power transformer forms the core of the ESOTERIC power amplifier. The decisive element in the M1's amazing linear high-power performance is the design of its strong power supply unit. ESOTERIC has long believed that the power transformer is the most important factor in sound design of an amplifier. The key to the overwhelming power and rich sound quality of the M1 amplifier is a custom-built ultra-large toroidal core transformer with a 3057VA core size and a mass of approximately 18 kg. Following ESOTERIC tradition, the bare (no-case) mounting spec give top priority to sound quality. In order to make the fullest use of transformer performance capable of instantly supplying power from primary to secondary, the power supply unit features 16 pieces of 3300UF capacitors in 8-parallel configuration, with the shortened voltage charge time contributing to high-speed sound quality.

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A superior 5/1124dB is achieved at the input stage of the full-balance configuration. When designing the amplifier for signal amplification in the M1, maximum attention was given to noise processing. Bringing together circuit design expertise cultivated since the very start of ESOTERIC, we adopted a full-balance input stage that was achieved as a result of painstakingly detailed designs. The signal is received by dedicated input buffer amplifiers (totally balanced design) in each input channel (NCA-L, NCA-R), with low-impedance and full-balance transfer on the signal path up to the amplification stage. By eliminating common-mode noise and making the signal path resistant to the effects of noise, we maintained signal transfer purity up to the amplification stage, thereby achieving S/N ratio for a superior auditory feel. The overwhelming auditory dynamic range created through the amplification of a clean no-noise signal promises the listener a level of excitement that transcends spec values. The M1 does not give you just the dynamic expression of a high-power amplifier. It also has the extreme sensitivity needed to give you more nuanced gradations in between musical climaxes and silences.

Philosophy

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High-performance bipolar LAPT transistor boasting instantaneous 34 amperes.

Large bipolar LAPT transistor components boasting the revolutionary current supply capacity of 17 amperes continuous action and 34 amperes instantaneous action were adopted for the M1. In addition to the high power, the LAPT components also have superior high-frequency characteristics that enable them to provide subtle tonal qualities.

* LAPT=Linear Amplified Power Transistor

Three-stage Darlington circuit, six parallel push-pull, two-module configuration.

The power amplifier module has bipolar LAPT components in a three-stage Darlington configuration with six parallel push-pulls. To readily showcase the superior high-frequency characteristics of the bipolar components, we used a simple amplifier circuit that reduces the number of parallel elements as much as possible. By holding the number of amplifier-stage parts to a minimum and eliminating the output-stage coil, we were able to maintain signal path purity while at the same time focusing our efforts on reducing internal impedance through measures such as incorporating 16 busbars. In addition, the use of a two-module configuration mounted on two large aluminum die cast heat sinks helped to raise waste-heat efficiency and stability.

Minimization of NFB (negative feedback) minimized and realization of lively, natural sound quality.

By making the amplifier circuit design as simple as possible and reducing previous stage naked gain, we minimized negative feedback to realize a natural sound quality that overflows with full of vitality.

Dramatically heightened resolution through a current amplifier stage featuring an independent power source.

The current that the drive stage (current amplification stage) supplies to the speakers always fluctuates radically. To prevent this from affecting sound quality, the current amplifier stage—which is situated just before the drive stage and which receives weak signals from the input stage—has a dedicated toroidal power transformer and power supply circuit. These provide a stable power supply to the stage, making it possible to heighten the nuanced expressive power and resolution of each instrument, even in a musical climax performed by a full orchestra.

High-impedance 1M ohm input.

The signal input unit was designed with 1M ohm high impedance. This reduces the load on the preamplifier output circuit and makes it possible to fully draw out the performance capabilities of all preamps.

High-grade parts used throughout for outstanding characteristics and sensitivity.

We carefully selected only the highest-grade parts for the M1 that are worthy of our flagship model. These include XLR input terminals that boost high-reliability and high contact performance as well as ESOTERIC original RCA input terminals. The nextgen WBT-0705Cu terminals produced by WBT are used for the speaker terminals. The use of pure materials (pure copper + gold plate) in the conductor core achieves high conductive performance and low resistance values. In addition, The M1 employs high-grade components such as low-impedance electrolytic capacitors and transistors with superior high-frequency characteristics achieved through a strict selection process including repeated audio and material properties testing.

Ingenious chassis structure fused with the high precision and vibration suppression at a high level.

The chassis is built using ESOTERIC’s traditional two-level chassis structure. The strong internal 2 mm steel-sheet framework is segregated by circuit blocks into specialized compartments, and thorough wire and circuit mutual interference prevention is done using the optimum signal paths. The bottom chassis is built from 5mm thick steel. The total block layout of the internal framework is covered with a 5mm aluminum panel and a front panel that is cut from 35mm thick aluminum. ESOTERIC’s unique pinpoint feet provide a four-point support system that delivers a high level of rigidity with no resonance for the heavyweight housing.