



A New Century Begins for LUXMAN.

A culmination and a new beginning.

Pursuing the ultimate in sound, bringing music to life.



How beautifully can an audio system reproduce music?

The pursuit of ultimate sound exists because we are driven to discover just how far musical reproduction can be taken.

Introducing the B-100 CENTENNIAL, LUXMAN's 100th Anniversary commemorative model.

Created in pursuit of a new pinnacle in music reproduction, this monaural power amplifier embodies every aspect of LUXMAN's century of expertise in electronic engineering and sound-quality refinement.

Engineered without compromise, as only a true flagship can be, the B-100 CENTENNIAL delivers extraordinary drivability and linearity, effortlessly bringing out the full potential of virtually any loudspeaker system with remarkable vitality, openness, and authority.

Its refined presence, crafted to satisfy not only the ear but all the senses, is worthy of the finest audio component.

The B-100 CENTENNIAL is both the culmination of a century of innovation and the starting point for what is to come.

Pursuing the ultimate in sound. Bringing music to life.

A new century has just begun for LUXMAN.



MONAURAL POWER AMPLIFIER

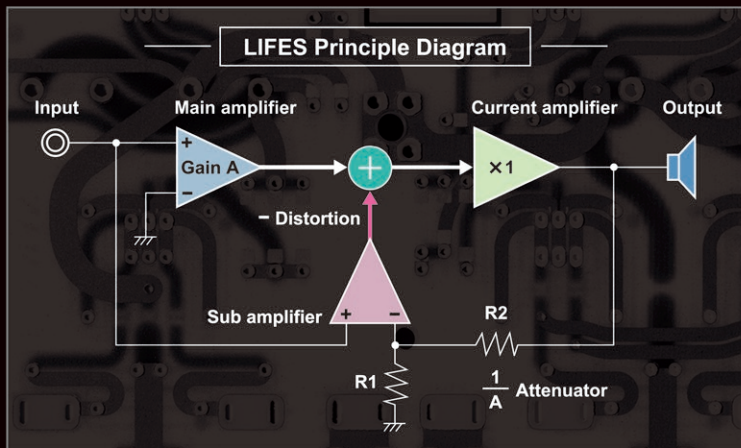
B-100 CENTENNIAL

New Amplification Feedback Engine



New Amplification Feedback Engine Equipped with LIFES™ Ver.1.1

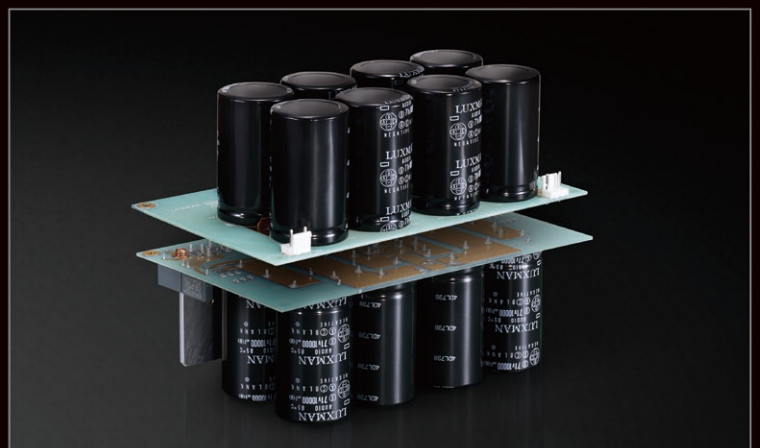
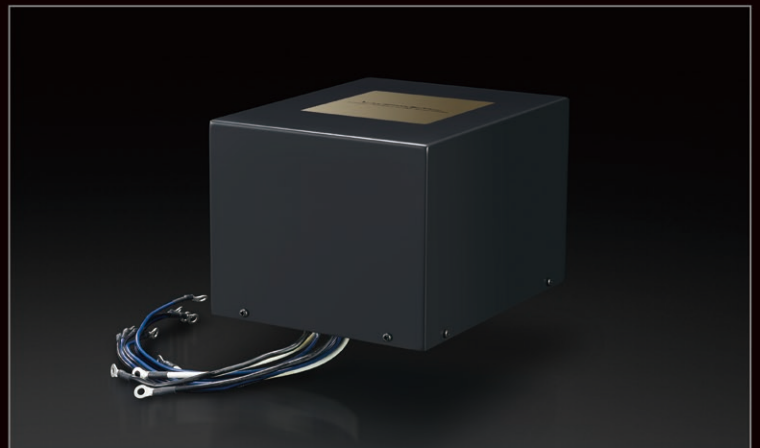
LIFES™ (Luxman Integrated Feedback Engine System) with Quadruple-Parallel, Quadruple Output Stage Configuration is an amplification engine designed to breathe life into every musical signal. Developed with LUXMAN's centennial vision in mind, LIFES inherits the fundamental concept of our acclaimed ODNF™ (Only Distortion Negative Feedback) architecture while being completely redesigned from the ground up. Every aspect of the circuit has been renewed to achieve a simpler, more compact design utilizing carefully selected, high-performance components that ensure long-term supply stability. LIFES feeds back only distorted audio components detected as the difference between the input and output signals by a dedicated differential error amplifier. This unique approach combines the natural openness and vitality of a non-feedback amplifier with the outstanding linearity and stability of negative feedback amplification, achieving an exceptional balance between musicality and technical performance. Five years after its debut in the M-10X in 2021, LIFES has continued to evolve through implementation across numerous LUXMAN components. Now, Version 1.1 further improves performance by paralleling the input stage of the differential error amplifier, resulting in even lower distortion and higher precision. The B-100 CENTENNIAL features the latest LIFES Ver.1.1 in LUXMAN's most ambitious output stage to date. Four independent output modules, each employing a three-stage Darlington cascade, are quadruple paralleled in a push-pull configuration, forming a 4 × 4 output architecture that represents the highest-capacity implementation of LIFES ever realized. With meticulously optimized bias current, the amplifier operates in pure Class A up to 25 watts (8 Ω) while delivering 125 watts into 8 Ω and an instantaneous peak output of 1,000 watts into 1 Ω. The result is extraordinary power linearity and unrivaled drivability, allowing the B-100 CENTENNIAL to reproduce music with remarkable naturalness, effortless dynamics, and an exceptionally open, vibrant sound.



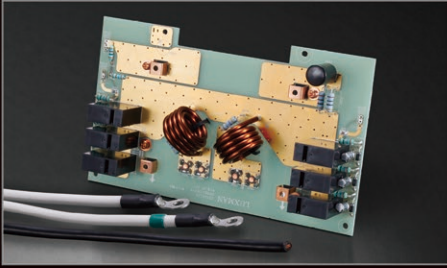
High Inertia Power Supply

Highly-regulated Power Supply Large EI-Core Power Transformer and High-Capacity Filter Capacitors

To faithfully reproduce not only every nuance of the musical signal but also the emotion behind it, an amplifier must respond instantaneously to constantly changing demands for power. LUXMAN's answer is the Highly-regulated Power Supply. By combining a large, highly regulated power transformer with exceptional voltage stability and high-capacity filter capacitors capable of delivering massive instantaneous current, the amplifier maintains a vast reservoir of stored energy. This "energy reserve" enables it to supply power effortlessly and without hesitation, even during the most demanding musical transients. The power supply that supports the B-100 CENTENNIAL's formidable output of 125 W into 8Ω and an instantaneous peak output of 1,000 W into 1Ω is the most powerful ever incorporated into a LUXMAN amplifier. At its heart is a 1,250 VA Super Regulated EI-core power transformer, wound with rectangular copper wire to achieve exceptionally high magnetic coupling and low power loss. Working in tandem are sixteen custom-developed 10,000 μF filter capacitors, first introduced in 2021 and now employed across numerous LUXMAN products, providing a total capacitance of an extraordinary 160,000 μF. The transformer is mounted on vibration-damping rubber within a dedicated, shielded compartment on the left side of the chassis, isolating it from both mechanical vibration and electromagnetic interference. The sixteen filter capacitors are arranged in two vertically stacked banks of eight, with each bank linked through equidistant, closely positioned connection points. This optimized layout minimizes impedance while ensuring efficient current delivery throughout the amplifier, contributing to its exceptional stability, dynamic performance, and effortless musical expression.



Technologies



Ultra-Low Impedance Signal Transmission

To achieve the exceptional loudspeaker drivability demanded of a reference-class monaural power amplifier, every aspect of the B-100 CENTENNIAL has been engineered for ultra-low impedance signal transmission. A newly developed large-gauge output conductors carry the amplifier's output signal with minimal resistance. This is paired with a newly designed heavy-duty output coil and low-resistance speaker relays.



Peel-Coat Circuit Boards

The B-100 CENTENNIAL employs 100 μm -thick, resist-free, gold-plated peel-coat printed circuit boards throughout every audio signal stage. By removing both the solder resist (protective coating) and residual flux from the signal paths, dielectric effects are minimized, resulting in a significant improvement in performance, particularly at high frequencies.



Custom-Engineered Components

At LUXMAN, careful component selection is an essential part of amplifier design. Beyond major elements such as the power transformer and high-capacity filter capacitors, every resistor, capacitor, and internal connection wire is meticulously evaluated. Newly added to the input signal path are wires made with 7N Class D.U.C.C.* conductors, further enhancing signal purity and overall performance.

Design



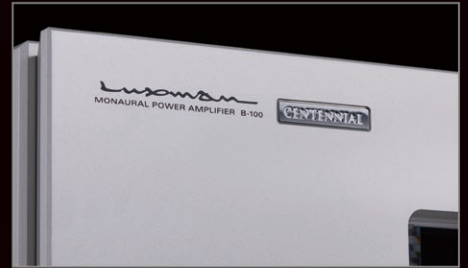
Distinctive Three-Dimensional Design

Finished in LUXMAN's elegant Blasted White silver finish, the B-100 CENTENNIAL commands attention with its imposing proportions—440 mm wide, 243 mm high, and 651 mm deep. Sharing the design language of the D-100 CENTENNIAL, the amplifier features a striking 18 mm-thick front panel with dramatically slanted side profiles, complemented by a 6 mm-thick hairline-finished top plate.



Classic Analog Needle Meter

Dominating the front panel is the dancing needle of a large analog meter, elegantly framed in a design that pays homage to LUXMAN's legendary B-10 power amplifier. Soft white LEDs cast a warm, incandescent shower of light across the meter's face, creating a timeless, classic ambience while complementing the amplifier's modern styling. Positioned beneath the meter, a series of LED status indicators provide clear operational information.



CENTENNIAL Badge

LUXMAN celebrated the 100th anniversary of its founding in 2025. To commemorate this historic milestone, we created a special CENTENNIAL badge with a polished chrome finish, exclusively reserved for products designed and manufactured as part of our centennial celebration.

Equipment



Highly-Rigid Chassis

The B-100 CENTENNIAL is housed within LUXMAN's loop-less chassis construction, engineered to eliminate increases in ground impedance caused by chassis currents while isolating the circuitry from unwanted magnetic interference. Its foundation is an exceptionally rigid dual-layer chassis bottom, formed by laminating 2.3 mm and 3.2 mm steel plates into a robust 5.5 mm-thick structure.



Premium-Quality Input and Output Terminals

The B-100 CENTENNIAL is equipped with premium-grade input and output terminals designed to ensure uncompromising signal integrity and long-term reliability. For analog inputs, LUXMAN's original highly rigid RCA terminals provide an exceptionally secure connection, while the balanced XLR inputs utilize highly reliable connectors manufactured by Neutrik, renowned for their precision and durability.

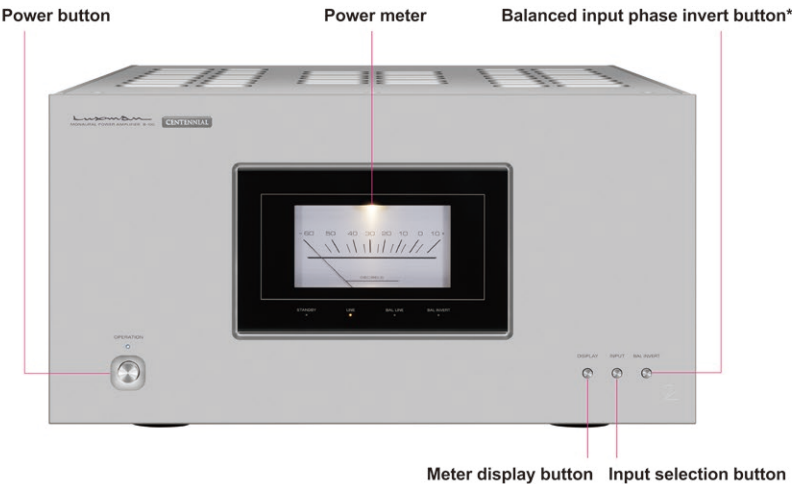


Highly Robust AC Inlet

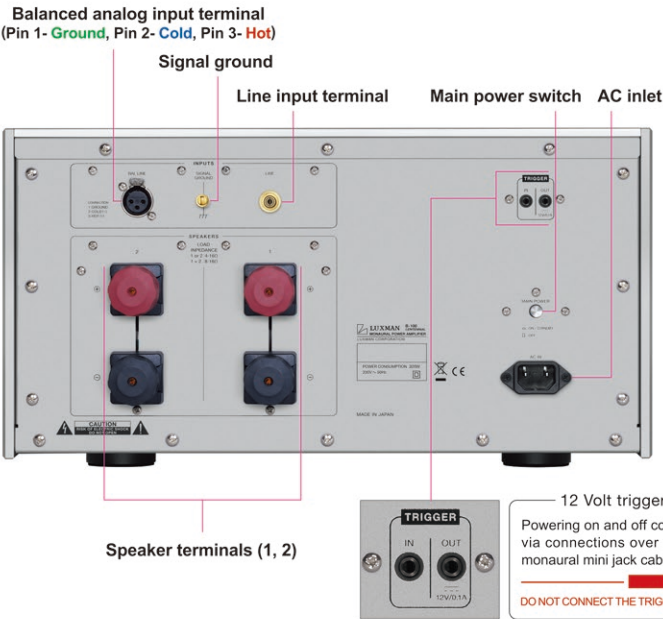
The B-100 CENTENNIAL features an AC inlet engineered to provide exceptional mechanical stability. Its robust construction supports the weight of the attached power cable across the entire connector assembly, ensuring a secure and stable connection while minimizing mechanical stress on the contact points. This contributes to long-term reliability and consistent power delivery, allowing the amplifier to perform at its full potential.

B-100 CENTENNIAL

MONAURAL POWER AMPLIFIER



Internal configuration



* Pressing the Balanced input phase invert button to make the balanced input terminal pin 2 to **HOT** and pin 3 to **COLD**.

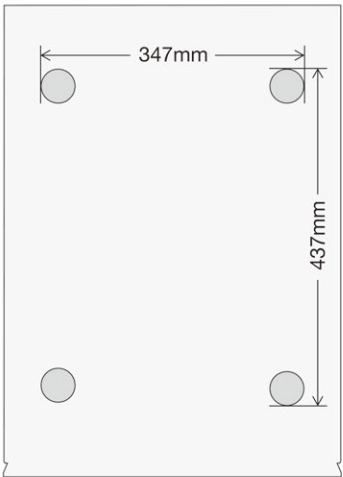
SPECIFICATIONS

Rated output	125 W (8 Ω), 250 W (4 Ω), Class A operation up to 25 W (8 Ω)
Instantaneous max. output	1,000 W (1 Ω)
Input sensitivity	1.12 V / 125 W (8 Ω) GAIN 29.0 dB
Input impedance	Unbalanced 51 kΩ Balanced 55 kΩ
Frequency response	20 Hz to 20 kHz (+0, -0.1 dB) 1 Hz to 180 kHz (+0, -3.0 dB)
Total harmonic distortion	0.0014 % or less (1 kHz / 8 Ω) 0.04 % or less (20 Hz to 20 kHz / 8 Ω)
S/N ratio (IHF-A)	119dB
Amplification circuit	LIFES 1.1
Output configuration	3 stage Darlington 4 paralleled push-pull × 4
Damping factor	1,000 (1 kHz) / 2,300 (50 Hz), measured using the EIAJ current injection method

Power consumption	320 W 230 W (under no signal) 1.0 W (at standby)
External dimensions	440 (W) x 243 (H) x 651 (D) mm Rear side terminal of 38 mm included in depth
Net weight	61.5 kg
Accessories	Power cable
Speaker terminal	Width of part a: 14 mm or less
Supported Y-lug terminal dimension	Width of part b: 7 mm or more



* Connection may not be performed depending on the shape of the Y-lug terminal.



Insulator position / dimensions

* LIFES stands for "Luxman Integrated Feedback Engine System"
* ODNF stands for "Only Distortion Negative Feedback" * D.U.C.C. is a registered trademark of Mitsubishi Cable Industries, Ltd.

LUXMAN

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Safety Cautions

To ensure correct use of this product, read the "Owner's Manual" prior to use. Failure to follow all safeguards can result in fire, electric shock, or other accidents.