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high fidelity excellence

858 Dual-Mono Power Amplifier

The 858 Dual Mono Power Amplifier is the best amplifier Lindemann has ever produced. As a power amplifier, it must bridge the low signal voltages emitted by the source and the high level of power required by the loudspeaker. This is a challenge we have been rising to, again and again, for more than 20 years now. The 858 showcases the circuit design principle of the "single ended push-pull" amplifier, which has been derived from valve technology, and is being employed for the first time ever in a fully-symmetrical transistor amplifier with current feedback. This means that the 858 masters all varieties of music, from mellow to complex in a natural and organic manner.

Dual-Mono Configuration

The 858 is comprised of two entirely separate amplifiers which are housed together in one unit. The only connection between the two channels is at the power socket. Each channel is equipped with a 800-watt transformer all of its own. The brilliance of the resulting channel separation ensures an exceedingly vivid stereo sound and generously-phased spatial reproduction.

Symmetrical Signal Processing

Both channels of the 858 are configured in full symmetry. The high level of common mode rejection attained using this circuit principle allows a far higher dynamic scope than otherwise possible with asymmetrical circuits. This is an extremely important prerequisite for rendering high-resolution music recordings!

"Current Mode" Amplifier

The real highlight of the 858 is its amplifier circuit. The fully symmetrical design featuring current feedback is based on an idea originating in valve amplification: the "single ended push-pull" amplifier. Utilizing highly linear, special transistors from Japan, allows this principle to be successfully applied to our "current mode" amplifier. The radical reduction in the number of components required, as well as the extremely short signal paths, paves the way for a huge increase in audio quality. Our meticulous selection of components, close-tolerance thin film resistors, and low-loss film capacitors contribute to an unparalleled playback quality.

Intelligent Quiescent Current Adjustment

The 858 incorporates "thermal track" power transistors. These transistors feature a diode on the transistor chip which immediately senses the temperature and instantaneously adjusts the quiescent current to the correct level. This eliminates any quiescent current problems typically encountered by "class AB" power amplifiers.

Push-Pull Output Stage

Each channel of the output stage of the 858 is equipped with 16 high load-capacity power transistors. In contrast to standard amplifiers, these transistors are not housed next to each other, but in the form of an exceptionally low-induction H-bridges. This effectively prevents any losses due to eddy currents in the high-frequency range. The result is a exquisitely fine and transparent playback, even at low volumes.

858 Specifications

Power Output	240 W/channel in 8 Ω (THD<0.1 %) 450 W/channel in 4 Ω (THD<0.1 %)
Frequency Response	1 Hz – 200 kHz (-3dB)
Signal to noise ratio	< 120dB (A-weighted, maximum output)
Voltage gain	26dB
Input impedance	1200 Ω balanced
Input sensitivity	1.87V for maximum output in 4 Ω
Output impedance	< 20 mΩ @ 100 Hz
Dimensions	17.3 x 6.5 x 13.6 inch / 440 x 165 x 345 mm (including feet)
Weight	59.75 lbs / 27.1 kg
Power supply	100V, 120V, 230V (50-60Hz) factory set for destination country
Power consumption	1500W max. 80W at idle 0.5W standby
Connections	(2) pairs speaker terminals (1) pair line inputs (XLR) (1) RJ-45 4-pole, SYSCOM (1) IEC power inlet
Accessories supplied	(1) 858 Dual Mono Power Amplifier (1) Standard power cord, 1.5m