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high fidelity excellence

885 Integrated Power Amplifier

The 885 Integrated Power Amplifier is showcasing itself as the latest integrated amplifier in the 800 series. It is also represents a pinnacle in the consistent technological evolution, and our thriving art, of designing and constructing amplifiers. It was the AMP1, launched in 1993, which was the first amplifier not to be based on the widespread "operational amplifier" principle, but rather the principle used by the current feedback amplifier ("current mode amplifier"). The 885 is now opening a whole new chapter: the circuit design principle of the "single ended push-pull" amplifier, which has been derived from valve technology, is being employed for the first time ever in a fully-symmetrical transistor amplifier with current feedback. The expert combination of these three sophisticated technologies yields a decisive advantage in audio quality. This means that the 885 masters all varieties of music, from mellow to militant, and its unmitigated aplomb and naturalness are immensely satisfying. Let yourself be astonished!

Dual-mono configuration

The 885 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 500-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 885 are configured in full symmetry. Asymmetrical input signals are also converted into symmetrical signals and adapted to the ideal level using a symmetrical volume attenuator, a standard used in studio technology. 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!

Push-pull output stage

Each channel of the output stage of the 885 is equipped with 8 high load-capacity power transistors. In contrast to standard amplifiers, these transistors are not housed next to each other, but rather in the form of 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.



Intelligent quiescent current adjustment

The complete 885 has been produced using "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.

"Current mode" amplifier

The real highlight of the 885 is its amplifier circuit. The fully symmetrical design featuring current feedback is based on an idea originating in the era of the valve amplifier: the "single ended push-pull" amplifier. Utilizing highly linear, special transistors from Japan allowed this principle to be successfully applied to a "current mode" amplifier. The radical reduction in the number of components required, as well as the extremely short signal paths it results in, paves the way for a tremendous increase in audio quality. Meticulous selection of components as well as close-tolerance thin film resistors and low-loss film capacitors contribute the rest, making a previously unparalleled playback quality possible.

please turn the page ►

Players · Amplifiers · Speakers · Cables

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Input sensitivity	500 mV balanced for 30 V output
Input impedance	20 k Ω
Voltage gain	35 dB
Maximum input voltage	6.0 V
Volume control range	100 dB in 1 dB steps
Balance control range	-5 dB.....+5 dB
Gain accuracy	0.05 dB min.
Channel balance	< 0.05 dB
Maximum output voltage speakers	32 V
Output voltage line output	-26 dB speakers
Minimum speaker impedance	2 Ω
Output power	135 W/channel @ 8 Ω , 250 W/channel @ 4 Ω
Frequency response	1 Hz –200 kHz (-3 dB)
THD	< 0.005%
Signal to noise	>110 dB (A-weighted, related to 30 V output)

Crosstalk L>>R	> 100 dB @ 1kHz
Crosstalk inputs	> 90 dB @ 1kHz
Dimensions	440 x 135 x 360 mm 17.3 x 5.3 x 14.2 inch (W x H x D incl. feet)
Weight	20.0 kg
Power supply	100 V, 120 V, 230 V (50-60 Hz) Factory set for destination country
Power consumption (idle)	75 W
Power consumption (full power)	1000 W max.
Power consumption (stand-by)	1.0 W
Inputs	(2) pairs line inputs (XLR) (3) pairs line inputs (RCA)
Outputs	(1) pair line outputs (XLR) (2) pairs speaker terminals
Other connections	(1) RJ-45, SYSCOM (1) IEC power inlet
Accessories supplied	(1) 885 Integrated Power Amplifier (1) Standard power cord, 1.5 m (1) System remote-control (1) SYSCOM-cable, 1.0 m

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