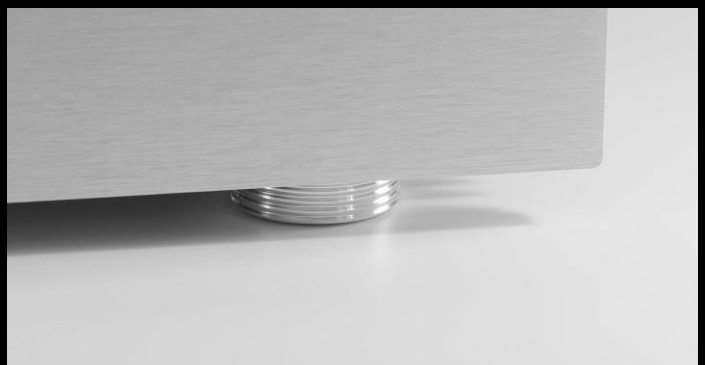
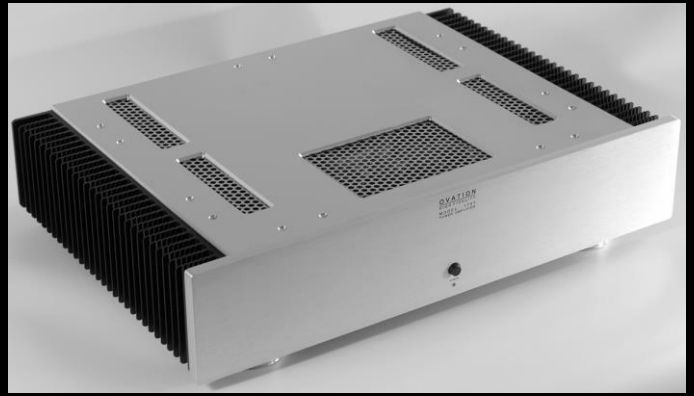


Ovation High Fidelity Model 1701 Power Amplifier

Aimed at the serious audiophile, the Model 1701 Audio Power Amplifier couples low distortion to 100 W RMS power output, peak output current capability in excess of 20 Amps and a wide 250 kHz bandwidth. The result is an amplifier that brings unmatched levels of transparency and dynamics to any system.

Whether you choose to spend an evening in the musical company of Diana Krall, the Berlin Symphony Orchestra or John Scofield and his band, the Model 1701 amplifier will deliver a standout listening experience.



Engineered for Art™

Model 1701 Stereo Power Amplifier

Model 1701 High Performance Audio Power Amplifier

- 100 W RMS into 8 Ohms, 180 W RMS into 4 Ohms
- Class AB Current Mode Topology (CMT)
- Fully balanced symmetrical circuit design
- 0.001% distortion 1 Watt into 8 Ω
- $\leq 0.005\%$ distortion 100 watts into 8 Ω
- >93 dB Signal to Noise Ratio 1 V into 8 Ω
- 140V/ μ s Slew Rate
- Wide -3 dB Bandwidth: 2 Hz to 250kHz
- >20 A peak output current capability
- Switch Selectable Balanced or Single Ended Inputs
- 500 Watt Power Supply
- Large Oversize Heatsinks for Cool Operation
- Aluminium/Stainless Steel Construction

Featuring a 250 kHz bandwidth, 140 V/ μ s slew rate and low distortion, the Model 1701 can deliver short term loudspeaker currents in excess of 20A thanks to an output stage that employs 6 matched 250 Watt power transistors per channel with exceptional SOA (Safe Operating Area) capability. Careful attention to signal integrity requirements, amplifier and power supply design, and PCB layout have resulted in exceptional noise performance that approaches -110 dB reference full output power and ~ 93 dB ref 1 V out.

The power supply is configured around a substantial custom built 500 Watt transformer that includes a flux band and an inter-winding screen to ensure mains noise ingress into the amplifier stages is prevented. A large 35 000 micro-Farad capacitor bank provides huge energy reserves that are always on tap when the music demands it.

Taken together, these design features and performance levels are in our view the prerequisites for recreating in full the imaging, dynamics and excitement of a good recording.

The Model 1701 further benefits from comprehensive protection features that include output overcurrent, DC offset detection and in-rush current limiting on power-up. Speaker muting is accomplished using innovative MOSFET switches that, unlike conventional electro-mechanical relay loudspeaker switches, suffer from no wear out mechanisms, and hence signal degradation over time, whatsoever. The Model 1701 can accept balanced or single ended inputs which are selected via a push-button switch located on the rear of the unit.

Designed, engineered and hand assembled in England. 5 year warranty on parts and labour

Model 1701 Stereo Power Amplifier

Specifications

Model 1701 Stereo Power Amplifier

General Description

100 Watt RMS, wide bandwidth, low distortion Current Mode Technology (CMT) power amplifier equipped with non-invasive over-current and DC Offset protection. Power up/Power down muting using solid state loudspeaker relay and in-rush current limiting during mains power-up. Balanced or single ended input selected via a push button on the amplifier's rear panel.

Inputs	1 pair single ended via RCA phono receptacles ($Z_{in} = 10k \Omega$) and 1 pair XLR balanced input ($Z_{in} = 10 k \Omega$); Input selection is via pushbutton located on amplifier rear panel
Input sensitivity	At rated output power: 1V for single ended inputs; 0.5V for balanced inputs
Output Power	100 W RMS into 8Ω 20 Hz to 20 kHz; 180 W RMS into 4Ω 20 Hz to 20 kHz; Peak I ² R Power 400 W single channel driven ($t \leq 50ms$)
Signal to Noise	Better than 93 dB ref 1 V into 8Ω ; typically, 110 dB ref full output
Rise time	Large signal: 700 ns rise and fall time 10% to 90% into 8Ω ; small signal rise time ~ 50 ns 2 V peak into 8Ω
Slew Rate	140 V/ μs positive and negative (power amplifier section)
Frequency Response	20 Hz to 20 kHz +0 dB -0.1 dB 1 W into 8Ω 2 Hz to 250 kHz +0 dB -3dB into 1 W 8Ω Intrinsic response (front end low pass filter disabled) 2 Hz to 700 kHz -3dB 1W into 8Ω
Distortion	$\leq 0.005\%$ at all frequencies and power levels up to rated output (8Ω) $\leq 0.001\%$ 20 Hz to 20 kHz 1W into 8Ω
Damping Factor	approx. 200 at 1kHz into 8Ω
Operating voltages	110-130 VAC or 220 to 260 VAC; factory set at time of order
Max Power consumption	500VA
Dimensions	450mm wide x 110mm high x 320mm deep
Weight	13 Kgs
Operating Temperature	-10 °C to +45 °C non-condensing

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The Ovation High Fidelity Company designs, engineers and builds high fidelity audio products so that listeners can connect directly with the artistic performance and our Engineered for Art™ mission statement reflects that ethos. Our products provide the ultimate in musical enjoyment, engender pride of ownership and are built to last for years.