

High Dynamic Range Audio Amplification

The REF500M drives your loudspeakers with an unprecedented level of sonic accuracy and power. The REF500M delivers 121dB dynamic range and 250 watts into 8 ohms, doubling to 500 watts into 4 ohms. The combination of fully-regulated switch-mode power supplies and analog control circuitry brings incredible dynamic expression to your music.



REF500M Refined Sweet Sounding Power

Bel Canto's e.One switching amplification imparts many advantages including low noise, low heat and low power consumption. It's also the most direct way to convert electrical power into music. The entire music signal is delivered to the loudspeaker efficiently without excess energy wasted as heat. The compact, heavy gauge, all-steel chassis prevents micro-phonic noise from corrupting the audio signal and brings music to life with extraordinary nuance and power.

The REF500M custom power input stage includes high speed, low noise rectifiers and large storage and filter capacitors that substantially increase energy storage, significantly lowering noise while reducing sensitivity to power line fluctuations. The custom input stage uses the latest advanced amplifiers and passive components including: Caddock resistors, Solid Electrolytic ultra-low ESR decoupling capacitors and low noise regulated power supplies. The combination of Bel Canto's input and power circuitry ensures the full dynamic expression in your music is experienced.

The Mono-Bloc design of a pair of REF500M amplifiers allows great flexibility in placement, either near your source components or your loudspeakers. The total isolation of each channel also results in the holographic stereo imaging and separation. The elegant switching output stage eliminates thermal distortion mechanisms caused by changes in operating temperature. You'll experience breathtaking truth in signal amplification that is life-like in its dynamic, detail and resolution.

Bel Canto music products are fine instruments that deliver music's subtle detail, impact and beauty. Green, low-heat, ultra-efficient heavily regulated switch-mode power supplies and switching output stage make possible Bel Canto's eco-friendly compact designs that are sleek enough to flatter any room; place two Bel Canto e.One products in the space formerly occupied by a large, hot-running, inefficient class-A design!



Maximum Power Output:	500W 4 ohms, 250W 8 ohms
Power Output 1% THD:	450W 4 ohms, 225W 8 ohms
Minimum Load:	3 ohms
Peak Output Current:	30 amperes
Frequency Response:	+/-3 dB 1.5Hz-70KHz, 4 ohm load
THD+N:	0.003% 1W, 1KHz, 4 ohms
IMD (CCIF):	0.0003%, 1W, 14:15KHz, 4 ohms
Output noise:	50uVRMS A-weighted 10Hz-20KHz
Voltage gain:	27dB (single ended or balanced input)
Damping factor:	1000
Output Impedance at 100Hz:	8 milliohms
Dynamic Range:	121dB
Input Voltage for Max Output:	2Vrms
Input connections:	Single-ended RCA or balanced XLR
RCA input impedance:	100Kohms
Balanced input impedance:	200Kohms
Output connections:	WBT Binding Posts
Power On usage:	9.5W
Power Off usage:	0.0W
Internally Set Operating Voltages:	100-120VAC or 230-240VAC 50/60 Hz
Size:	8.5 x 3.5 x 12", 216 x 88 x 305mm (W x H x D)
Weight:	14lbs, 7Kg

Features and specifications are subject to improvements and changes without prior notice.

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