

High Dynamic Range Audio Amplification

The REF500s provides high power in a compact stereo chassis. It delivers 121dB dynamic range and 200 watts into 8 ohms, doubling to 400 watts into 4 ohms. The combination of fully-regulated switch-mode power supplies and analog control circuitry brings great dynamic expression to your music.



The REF500s Unparalleled Power in a Stereo Chassis

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 REF500s includes a custom input stage that 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 bring layers of information out from the black background and insure that the full dynamic expression of your music is clearly present.

The REF500s provides unprecedented power and quality in a compact chassis design. When combined with a Bel Canto DAC you can build the electronics heart of a high power system in the space usually taken by a small integrated amplifier. 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.

Green, low-heat, ultra-efficient heavily regulated switch-mode power supplies and switching output stage make possible Bel Canto's eco-friendly compact designs; place two Bel Canto e.One products in the space formerly occupied by a large, hot-running, inefficient class-A design!

Bel Canto music products are fine instruments, discrete and sleek enough to flatter any room while delivering music with subtle impact and beauty.



Maximum Power Output:	500W 4 ohms, 250W 8 ohms per channel
Power Output 1% THD:	400W 4 ohms, 200W 8 ohms per channel
Minimum Load:	3 ohms per channel
Peak Output Current:	35 amperes per channel
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:	35uVRMS 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:	2-sets of WBT Binding Posts
Power On usage:	18W
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:	15lbs, 7Kg

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

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