

### **High Dynamic Range Audio Amplification**

*The REF1000M drives loudspeakers with incredible energy and detail, featuring 120dB dynamic range, delivering 500 watts into 8 ohms, doubling to 1000 watts into 4 ohms and able to drive a 2 ohm load. The custom input stage conditions the input signal to the amplifier for lower noise and distortion for rock solid imaging.*



*REF1000M 2 ohm Drive, Power and Resolution*

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 REF1000M custom power input stage includes high-speed low-noise rectifiers and substantially increased energy storage and filtration. This significantly lowers 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 the REF1000M amplifier 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 extremely dynamic, detailed and resolved.

Bel Canto music products are fine instruments that deliver the 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!



Power Output 1% THD:	1000W 4 ohms, 500W 8 ohms
Minimum Load:	2 ohms
Peak Output Current:	45 amperes
Frequency Response:	+/-3 dB 1.5Hz-40KHz, 4 ohm load
THD+N:	0.007% 1W, 1KHz, 4 ohms
IMD (CCIF):	0.0007%, 1W, 14:15KHz, 4 ohms
Output noise:	90uVRMS A-weighted 10Hz-20KHz
Voltage gain:	27dB (single ended or balanced input)
Damping factor:	>1000
Output Impedance at 100Hz:	<8 milliohms
Dynamic Range:	117dB
Input Voltage for Max Output:	3Vrms
Input connections:	Single-ended RCA or balanced XLR
RCA input impedance:	100Kohms
Balanced input impedance:	200Kohms
Output connections:	WBT Binding Posts
Power On usage:	15W
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:	17lbs, 8.5Kg

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

Bel Canto Design, Ltd.  
 Minneapolis • MN • USA  
[www.belcantodesign.com](http://www.belcantodesign.com)