



Bel Canto Unveil the VBS • The Virtual Battery Supply The Next Step in Pure Power Technology

Minneapolis MN • Bel Canto Design, Ltd., manufacturers of analog and digital source components and amplifiers pulls the cover off their latest achievement, the Virtual Battery Supply offering all the advantages of a 12 volt lead acid battery without the lead, the acid, or the battery! It offers smoother, even-tempered, well-adjusted DC than previously available.

Bel Canto's Gourmet Power

The Bel Canto 24/192 differential DAC is the heart of the system; the Bel Canto Digital Control Center. We make sure the DCC dines on gourmet power! Rather than depending on extra-cost power conditioners to do the job, John Stronczer builds higher performance into his designs with supplies that curb the crackling storms riding the AC mains.

Consider: More than likely your power is shared with fellow apartment-dwellers or houses sharing the same utility transformer. Every device in your home and theirs with an on/off switch sends spiky transients and noise through the system while spraying RFI around creating distortion. Air conditioners are prime culprits; lighting dimmers are distortion-producing machines, not to mention cheap wall-wart chargers greedily feeding only at the top and bottom of the 60Hz AC wave causing ripples of distortion when they all "bite" at once. Surges, phase distortion, over-and under-voltage conditions... imagine all that going on while you're trying to listen!

Bel Canto's current 120 volt power supplies are praised for their low noise and instantaneous power delivery. Put that down to custom power supply rectification and filtering that vastly increases energy storage, lowering noise and reducing sensitivity to power line fluctuations. But pushing the leading edge of eco-friendly, efficient power supplies, Bel Canto debuts its newest development, the VBS1.

VBT™ The Next Step In Pure Power Technology

Our Virtual Battery Technology is the next step forward in low-energy-profile, extremely low noise, ultra-efficient, integrated pure power supply designs, providing all the advantages of a 12 volt lead acid battery without the lead, the acid, or the battery for smoother, even-tempered, well-adjusted DC than previously available.

The extreme isolation and tight regulation of 100 Joules of energy storage plus high current capacity provide unmatched transparency, dynamics, low frequencies gravitas, and even greater image palpability. Bel Canto spoils you for life!

The VBS1's power supply transformer is surrounded by common-mode and differential-mode filtering plus massive energy storage making for extremely quiet, well-regulated and isolated 12

volt DC power for the circuits to feed on. The VBS1 provides over 100dB of isolation and filtration starting below 100Hz up through the audio band and beyond into the RF region. For more, see *Nuts and Bolts* below!

What about the current DAC3 with its 120V supply? Continue with the fine sound you enjoy now, or if you have lust in your heart for extending your listening pleasure, if you understand that it's all about the AC/DC, then you have several upgrades to consider.

Send your DAC3 back to Bel Canto for the power supply upgrade board that brings it to 12 volt DAC3_{VB} specification. Then enjoy better performance with our new wolf-in-sheep's-clothing, the high performance 12 volt LNS1 (Low Noise Supply 1). Then upgrade to the full VBS1 experience when circumstances permit. If you simply can't contain yourself, go for the gold and we'll send your upgraded DAC3_{VB} back to you along with our new VBS1. (Talk to your dealer or contact us at Bel Canto!)

The Nuts and Bolts

As mentioned, the VBS1's power supply transformer is surrounded by common-mode and differential-mode filtering plus massive energy storage making for extremely quiet, well-regulated and isolated DC power for much improved sound. The VBS1 provides over 100 dB of isolation and filtration starting below 100Hz up through the audio band and beyond into the RF region. The result is up to 100 times lower noise than traditional linear supplies in the audio frequency band.

The Virtual Battery Supply powers up to three Bel Canto music products equipped with the 12 volt VB internal power supply board for an incredibly high-value upgrade path. These include the CD2_{VB} (replacing the compact external 12VDC supply with the LNS1), the DAC3_{VB}, PRE3_{VB} or PHONO3_{VB}, or any future Bel Canto product with VB 12VDC input compatibility.

The Sound

Like falling off a log! The extremely high isolation, low noise, high peak current delivery and the 100 Joules of energy storage of the VBS1 delivers breathtaking results! You'll find greatly enhanced transparency, palpability, soundstage integrity, bass control, midrange texture, treble extension and sweetness. You loved your DAC3 before? Prepare yourselves!



Bel Canto DAC3_{VB} and VBS1

About Bel Canto

Bel Canto Design has developed award-winning products for more than 15 years using the highest standards of design, engineering and production practices. Included in the Bel Canto line are a series of CD players, DACs, integrated amps, mono and two-channel amplifiers, the e.One PRE3 stereo analog preamp, the companion PHONO3 with adjustable cartridge loading, and the new USB Link 24/96 growing a pile of positive reviews, with more products you want on the way.

Our music products are made in Minnesota, and we subscribe to low-impact production methods that put little waste back into the system. Reduced packaging volume and lower transport weight reduces our environmental impact. We reuse or recycle more than 99% of the packing materials found in our incoming parts shipments, and each year we divert massive amounts of cardboard, paper, plastic film, and Styrofoam from landfills. Steel, aluminum, and other metal waste products are recycled and returned to the production stream.

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