

This is a David Belles designed, high current amplifier. One of the earlier and more powerful amplifiers before Belles went to what is now called Power Modules.

The 450 is stable down to 2 ohms doubling power output to 2ohms. Rated power is 200 wpc @ 8 ohms, 400 wpc @ 4ohms and 800 wpc @ 2 ohms
Damping factor 200+ (20 to 20,000 hz)
Peak Current 100 amperes +
Input Sensitivity 1.54 volts for rated power
Input Impedance 25,000 ohms
Hum and Noise over 100db unweighted
Frequency Response 3db power bandwidth into 8 ohms (0.2 to 60,000) Dimensions 17" wide x 10" high x 13" deep Weight 59lbs

The following is an excerpt from the brochure.

The 450 features a single circuit input board into which input connectors, binding posts and an integral power supply are mounted, to eliminate signal degrading.

The 450 features a bipolar transistor, dual complementary differential pair front end followed by a class A bipolar high voltage gain drivers and a class AB complementary power MOSFET output stage. It is equipped with high current switch mode computer grade power supply capacitors that enable it to handle the most demanding transients by providing a high efficiency of energy storage and release.

Its high current 1500VA toroidal power transformer delivers a stiff supply of continuous power. With a peak current rating of over 100 amperes, the Belles 450 has the ability to handle impedance dips at all different frequencies that exist in speakers. It can drive difficult loads rated in the 2 to 16 ohm region.

Many years ago, Belles Research concluded that only high quality components and materials will perform reliably and deliver the sound that was sought after. Consequently, only the very best are used, for example, we use 1% metal film resistors, polypropylene film capacitors (wondercaps), hand matched transistors, gold plated input jack connectors, massive heat sinks, van den Hul silver mono-crystal wire and sturdy 5 way binding posts.

