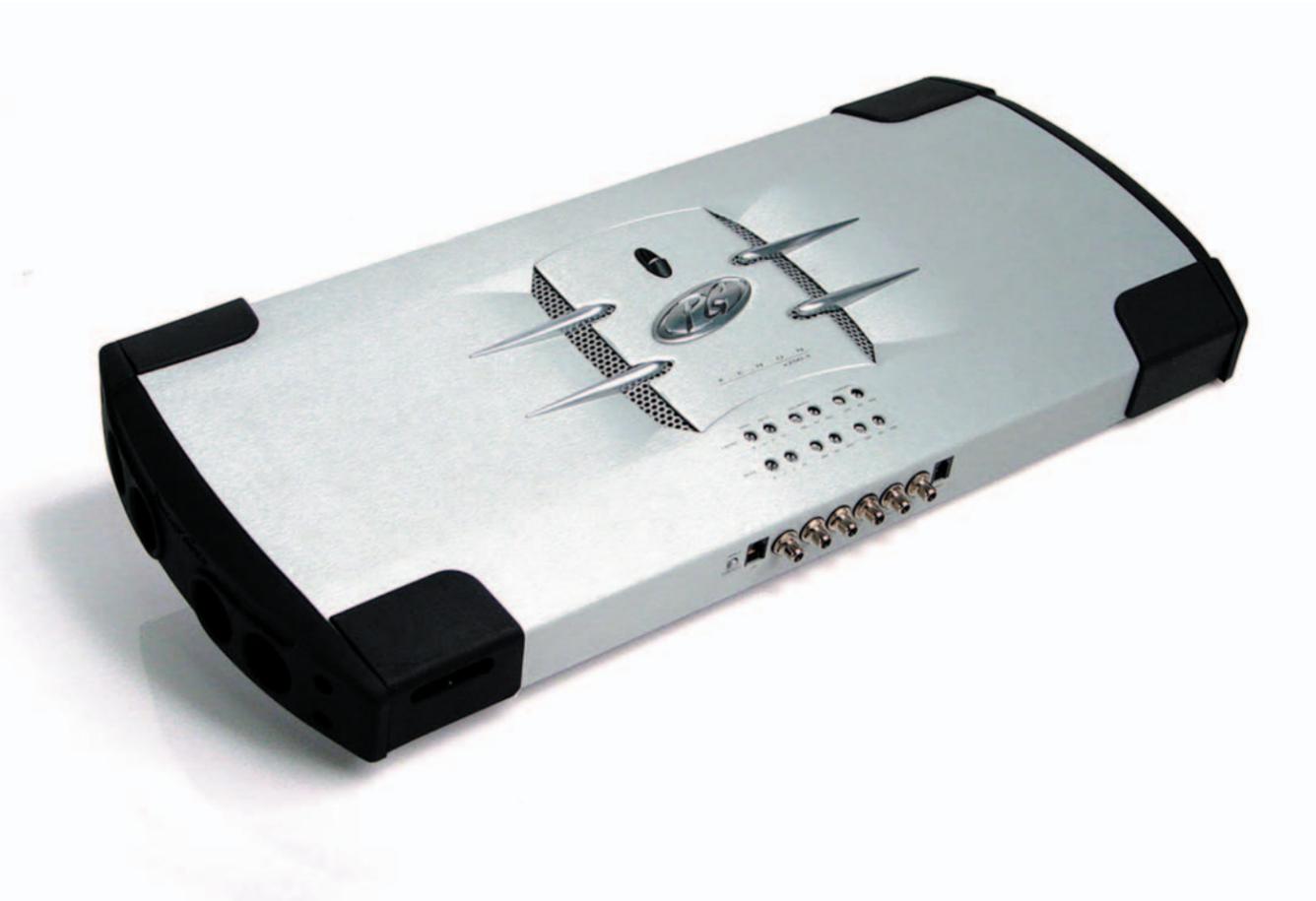




X E N O N

Amplifier White Paper



PHOENIX GOLD



Xenon Amplifier Models

| SPECIFICATIONS | X400.1 | X600.1 | X1200.1 | X100.2 | X200.2 | X100.4 | X200.4 |
|---|---|---|---|---|---|---|---|
| | MONOBLOCK | MONOBLOCK | MONOBLOCK | TWO CHANNEL | TWO CHANNEL | FOUR CHANNEL | FOUR CHANNEL |
| Rated 4 ohm Stereo Rated 4 ohm Bridged | 400 x 1 @ 4 - 1 ohm | 600 x 1 @ 4 - 1 ohm | 1200 x 1 @ 4 - 1 ohm | 100 x 2 200 x 1 | 200 x 2 400 x 1 | 100 x 4 200 x 2 | 200 x 4 400 x 2 |
| Measured 4 ohm Stereo Measured 4 ohm Bridged | 412 x 1 @ 4 - 1 ohm | 643 x 1 @ 4 - 1 ohm | 1321 x 1 @ 4 - 1 ohm | 120 x 2 240 x 1 | 228 x 2 456 x 1 | 115 x 4 230 x 2 | 221 x 4 442 x 2 |
| Built-in Crossover Slope High Pass Range Low Pass Range Bass EQ Circuit Min. Recommended Load | 24dB per Octave 5 to 55Hz 30 to 300Hz 0 to 18dB 1 ohm | 24dB per Octave 5 to 55Hz 30 to 300Hz 0 to 18dB 1 ohm | 24dB per Octave 5 to 55Hz 30 to 300Hz 0 to 18dB 1 ohm | 24dB per Octave 40 to 400Hz 40 to 400Hz 0 to 18dB 2 ohm bridged | 24dB per Octave 40 to 400Hz 40 to 400Hz 0 to 18dB 2 ohm bridged | 24dB per Octave 40 to 400Hz 40 to 400Hz 0 to 18dB 2 ohm bridged | 24dB per Octave 40 to 400Hz 40 to 400Hz 0 to 18dB 2 ohm bridged |
| Full Range RCA Outputs 4 gauge Power Terminal High Current Buss Bars LPL44 Control Ready RMD Ready Variable Speed Fans | Yes Yes Yes Yes Yes None | Yes Yes Yes Yes Yes One | Yes Yes Yes Yes Yes One | Yes Yes Yes Yes Yes One | Yes Yes Yes Yes Yes One | Yes Yes Yes Yes Yes One | Yes Yes Yes Yes Yes Two |

Xe.FLOW™ - Thermal Feedback System

With our competitor's amplifiers they use a basic thermal protection that simply shuts the amplifier off when the heatsink reaches 90 degrees C. With the XeFLOW™ technology the temperature of the amplifier is constantly monitored and its operation and fan speed are optimized according to the temperature of the amplifier. For example, in the VERY RARE case, that a Xenon amplifier begins to reach an unsafe temperature the amplifier slowly re-optimizes the output of the amplifier. This adjustment in volume is very slight and the end user will most likely never hear it (less than 2dB), this puts the amplifier in an operating range that allows the amplifier to continue to play. The amplifier will monitor its own temperature and adjust its power output, so it will continue to play even on those hot days in the trunk in Texas

Xe.TUNE™ - Signal Processing

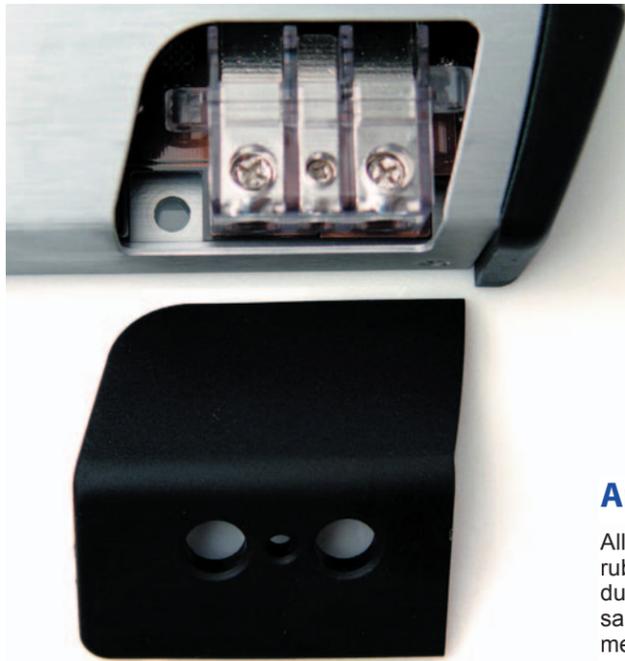
All of the controls for the crossovers, sensitivity, and bass boost are located on the top of the amplifier. All crossovers are 24dB per octave and a separate high and low pass filter is available for each set of channels. This means on any standalone Xenon amplifier can be set to bandpass by turning both crossovers on, this is not available on any other amplifier on the market today. All crossover frequency potentiometers have 41 detents so the end use can set the exact crossover frequency desired. For example, turn the potentiometer 15 clicks for exactly 64Hz. No more turning the potentiometer and guessing where you crossover points are.

Xe.LOAD™ - Full Power 1 to 4 ohm

Xenon amplifiers are designed to handle extreme abuse and drive almost any load. With XeLoad™ technology its very easy to choose what speakers to wire to the amplifier to get maximum power from the amplifier. It doesn't matter whether its a DVC 2 ohm, SVC 4 ohm, or three DVC 1 ohm. A Xenon amplifier automatically senses the load from 1 to 4 ohms and drives it with full power every time. This makes life simple for any audiophile or basshead.

XENON AMPLIFIERS: THE INSIDE STORY

X200.4 "The Big Nasty" - 200 Watts x 4 @ 4, 2, and 1 ohm



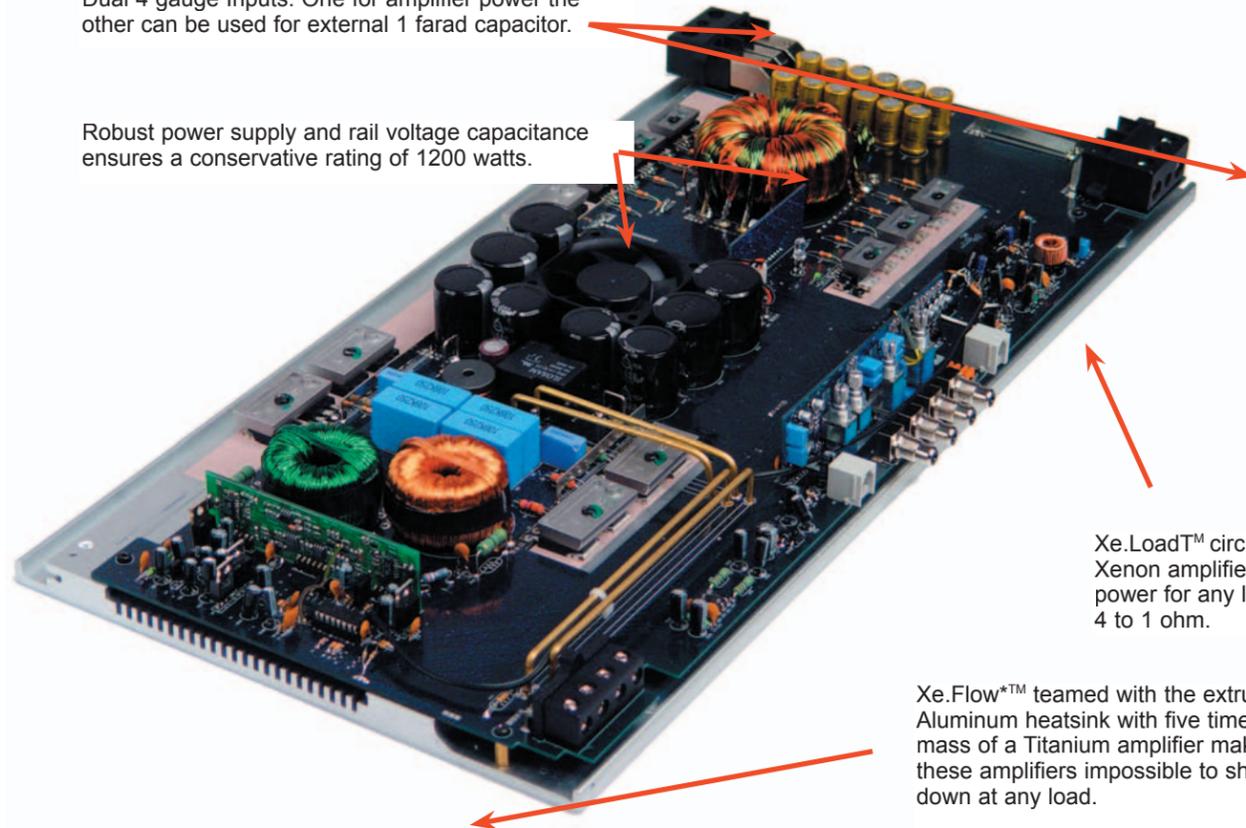
Another PG First - Rubber Hides All

All wiring and mounting connections are hidden by removable rubber grommets. The endcaps are also made of the special durometer rubber that can withstand insane temperatures. They said it couldn't be done, but it provides an unbelievable cosmetic look and feel.

X1200.1 - Bad Boy 1200 Watt Monoblock

Dual 4 gauge Inputs. One for amplifier power the other can be used for external 1 farad capacitor.

Robust power supply and rail voltage capacitance ensures a conservative rating of 1200 watts.



Xe.Load™ circuitry allows all Xenon amplifiers to make full power for any load between 4 to 1 ohm.

Xe.Flow™ teamed with the extruded Aluminum heatsink with five times the mass of a Titanium amplifier makes these amplifiers impossible to shut down at any load.

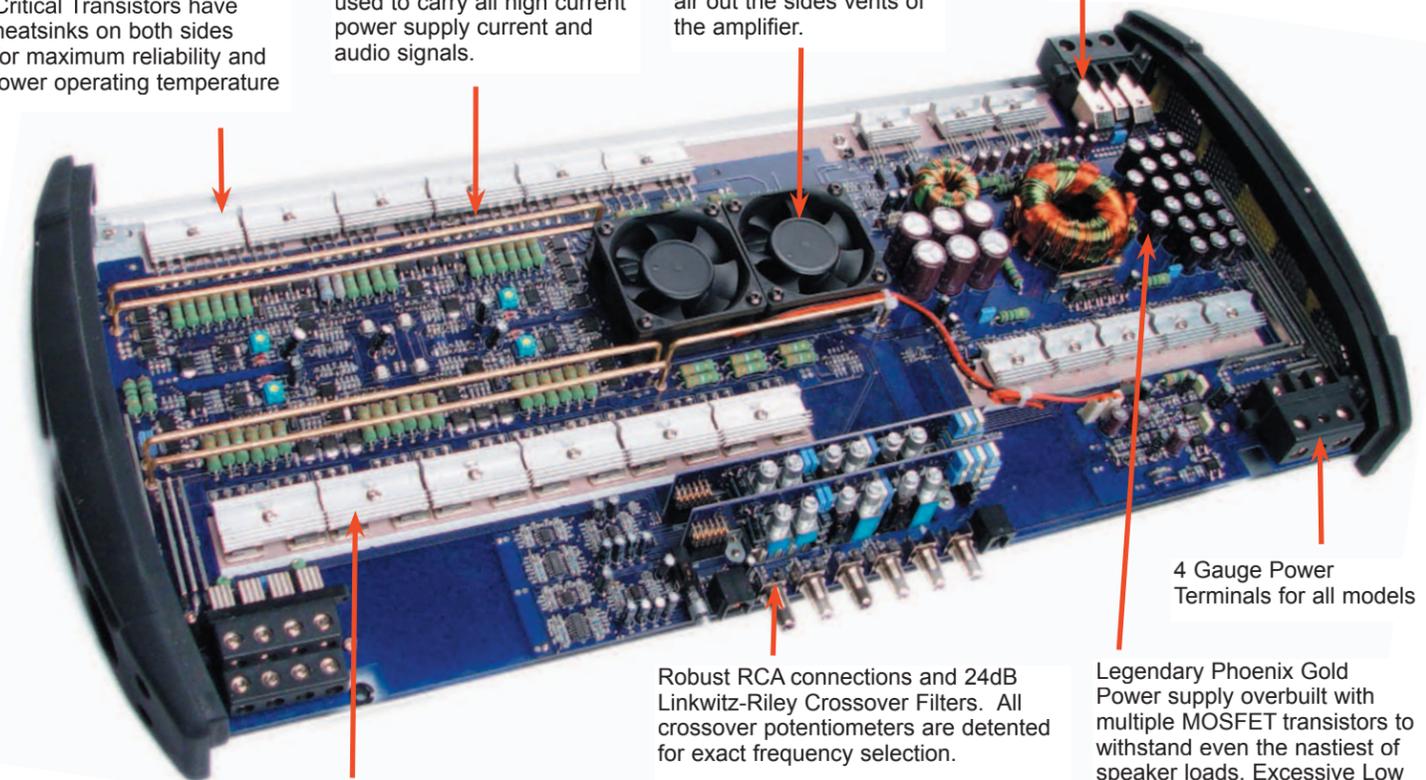
* See back page for full explanation of XeFlow™ and XeLoad™ technology.

Critical Transistors have heatsinks on both sides for maximum reliability and lower operating temperature

Heavy gauge buss bars are used to carry all high current power supply current and audio signals.

Ultra quiet variable speed fans draw cool air in from the top and exhaust hot air out the sides vents of the amplifier.

Auxiliary 4 Gauge Power and Ground Terminal for external capacitors. X1200.1 and X200.4 only.



4 Gauge Power Terminals for all models

Robust RCA connections and 24dB Linkwitz-Riley Crossover Filters. All crossover potentiometers are detented for exact frequency selection.

Legendary Phoenix Gold Power supply overbuilt with multiple MOSFET transistors to withstand even the nastiest of speaker loads. Excessive Low ESR capacitors located closely to the power supply ensure dynamic performance

The number of audiophile Sanken output devices are nearly doubled compared to Titanium amplifiers. This Triple Darlington design ensures incredible sound quality and rock solid reliability. The Ti500.4 contained only 8 output devices, the X200.4 contains 24!!! That's overbuilt...

Endcaps and Wiring Terminals are made of composite rubber

Grained and Anodized Aluminum Top Case

Expanded metal highlights the cold air intake and exhaust vents

Superbrite Blue LED resides in a headlight bezel housing

