

X Power - Power Amplifier



The X Power is the reference stereo power amplifier in the Cyrus series. Conservatively rated at 70W/ch into 8 ohms and upgradeable in stages to 140W mono (with PSX-R), the X Power is the perfect partner for the Cyrus X series preamplifiers, the Pre Xvs and DAC XP, or as an upgrade power amplifier for the Cyrus 8vs.

Specifications

Electrical

Inputs - Phono sockets

Outputs - Bi-wirable Loudspeakers, Chain out

Power Supply - 330VA Toroidal transformer

External - Highly regulated PSX-R upgradeable

Communications - MC-BUS™ System BUS

Specifications

Power output Stereo - 70W/CH (both driven into 8 Ohms) 110W/CH (both driven into 4 Ohms)

Power output Mono - 140W/CH (both driven into 8 Ohms) 195W/CH (both driven into 4 Ohms)

Power output stereo + PSX-R - 70W/CH (both driven into 8 Ohms) 120W/CH (both driven into 4 Ohms)

Power output mono + PSX-R - 140W/CH (both driven into 8 Ohms) 240W/CH (both driven into 4 Ohms)

Distortion - <0.002%, (1kHz into 8 Ohms) <0.01%, (20Hz-20kHz into 8 Ohms)

Frequency Response - -3 dB at 0.1Hz and 100kHz

Output Current - 30A peak

Sensitivity (RCA input) - 413mV (for 60W stereo into 8 Ohms)

Input impedance - 20Kohm

S/N Ratio - 112dBA (ref 60W)

Dimensions - (H x W x D) 73 x 215 x 360 (mm)

Weight - 5.6k

Finish - Silver & Brushed Black

In detail

This amplifier is the perfect partner for the Cyrus X series preamplifiers such as the Pre Xvs and the DAC XP where the system does not demand the driving power of the mighty Mono X. In true Cyrus style the X Power is packed with a long line of features to enable total system flexibility and the possibility of progressive upgrade routes to double the system power up to a full 140W 8Ω when switched to mono with a PSX-R connected.

- Conservatively rated at 70W, the X Power design includes a vastly over-specified power supply bringing considerable dynamic power in excess of the rated RMS figure, essential when driving difficult loads. Technically competent, the X Power ranks highly amongst its peers for technical specifications such as noise, distortion, damping factor and current delivery.

- With the X Power working with its partner the Pre Xvs, there are many different system configurations that can be arranged for the pair. From a single X Power in a high quality pre/power system through 2-amp systems (either bi-amped stereo for quality, or configured as mono for high power) to the ultimate 4-box bi-amp mono system. Further upgrades are possible at any stage by connecting PSX-R power supplies, taking the ultimate X Power system to a full 8 boxes!

- The X Power is also an excellent upgrade for a Cyrus integrated amplifier, such as the Cyrus 8vs, either to upgrade the performance of the internal power amplifier, or to use both the internal power amp and the X Power in a bi-amped configuration. The fixed gain structure of the Cyrus range enables any Cyrus power amplifier, such as the X Power, to be matched for bi-amping to any Cyrus integrated amplifier with a pre-out connection.

- The X Power includes a port for connection of the PSX-R power supply. The PSX-R is a high capacity, fully regulated power supply with even more capacity than the internal power supply of the X Power. The benefits of the super-quiet DC power from the PSX-R will be primarily experienced as an upgrade in the sound of the system, although the power output of the X Power will also be increased, particularly when operating as a mono amplifier.

- The X Power features a sophisticated music-sense circuit with microprocessor control. When the unit is set to low-consumption Standby a high-sensitivity circuit will detect an incoming music signal and switch on the amplifier noiselessly ready for use. A precision timer in the control system will then hold the amplifier on for 4 minutes before resetting to a semi-Standby state. From this state the amplifier can be wakened instantly so that even subtle low-level background music or effects signals will not be lost as the amplifier exits standby. If music is not present for an extended period then the X Power will revert back to its true low-consumption standby state.

- As an alternative means of power control when used in a Cyrus system, the X Power includes connection for the Cyrus MC-Bus system. In this case the intelligence in the control system will detect that the user has chosen to use MC-Bus control and will de-activate the music sensing control system.

- For applications with systems where music-sense is not required and MC-Bus is not connected, the music-sensing system may be disabled, temporarily by holding the standby key down when first switching on the X Power mains power, or permanently by moving a small jumper connector internally on the PCB.

- The computer control system of the X Power also monitors the general status of the amplifier and can react quickly enough to protect it from accidental short-circuits, even when running at full power.

- The quality lightweight die-cast enclosure of the X Power has a myriad of advantages both electrically and mechanically. The integrated heatsink design enhances the thermal efficiency allowing higher performance to size ratio. Additionally, the non-resonant nature of the alloy minimises microphonic effects, while its non-ferrous composition provides an effective shield from external electro-magnetic disturbances. This also eliminates coupling of the power transformer stray magnetic fields to the sensitive audio circuitry.