

PRODUCT INFORMATION GUIDE

Cyrus XPower Stereo/Mono Power Amplifier



Construction

Enclosure Material
Cyrus Inverted die-cast chassis
Lightweight non-magnetic magnesium alloy

Electrical

Inputs
RCA phono

Outputs
Bi-wire Loudspeakers (BFA terminals)
RCA Chain out

Power Supply
330VA Toroidal transformer

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
20kΩ

S/N ratio
112dBA (ref 60W)

Dimensions (H x W x D)
73 x 215 x 360 (mm), 2.8 x 8.4 x 14.1 (inches)

Weight
5.6kg

Finish
Quartz or Brushed Black

Features

Switchable for Mono operation
Intelligent power supply control
Fully buffered Chain output
Extensive use of Star-Earthing technique
PSX-R upgradeability

MC-Bus™ System Bus

Benefits

- For highest power output
- Enables four modes of operation
- Easy Bi/Tri amping.
- Enhanced low level resolution.
- Enhancing performance by further isolation of power supply.
- Integrated system control with the *Cyrus* range.

Setting Up

- Run in for at least 48 Hours before serious listening.
- Use quality loudspeaker cable
- Match with a *Cyrus* pre-amplifier for optimum performance.

PRODUCT INFORMATION GUIDE

Cyrus X Power Design Brief

The brief for the Cyrus X Power was to develop a stereo power amplifier worthy of the Cyrus X series name. This amplifier would be the perfect partner for the Cyrus X series preamplifiers such as the Pre XPd and the DAC XP where the system did not demand the driving power of the mighty Mono X. In true Cyrus style the X Power would be 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 measured performance such as noise, distortion, damping factor and current delivery are all excellent.
- With the X Power working with its partner the Pre XPd, 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 8XPd, 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. It 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 5 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 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 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.