

PSX-R - Power Supply



"It didn't take long for the Cyrus to convince me of it's extensive talents" - What Hi Fi? Sound and Vision Awards 2007

Many of our components can be further improved by adding this regulated power supply. Like a giant battery, it feeds the sensitive circuitry with highly regulated power thus allowing you to realize the maximum performance from the system.

It is a widely accepted fact in the high quality audio circles that the power supply design accounts for a large portion of the overall perceived quality of the hi-fi system. The Cyrus PSX-R is a 300W fully regulated DC Power supply designed to enhance the performance of the partnering Cyrus products when used as an optional extra. With its intelligent connectivity, the PSX-R automatically adjusts its output parameters to suit the partnering Cyrus component.

In detail

- A 300VA toroidal transformer with an enormous current delivery capability forms the front end of the PSX-R. The 30,000 microfarad slotted foil reservoir capacitors ensure that very low ESR and wide bandwidth are presented to the linear mode regulator stage that follows.
- The symmetry as a design objective set out in the Cyrus range continues to be an important topology feature of this wide dual bandwidth DC amplifier working as a linear voltage regulator in an identical manner for the positive and negative sides of the PSX-R.
- Current sharing fast double output power transistors ensure quick response in providing the demanded current from the partnering Cyrus unit. Low noise high gain amplifiers in a propriety design provide the remarkable load and line regulation afforded by the PSX-R.
- The intelligent nature of the control circuitry built into the PSX-R not only sense the requirement of the partnering Cyrus component but also relinquish the power-on control to that unit to allow ergonomic operation of the system. At the same time this elegant circuit protects against mal-operation of the PSX-R beyond the designed parameters.

- Connection to the partnering Cyrus unit is made through a quality XLR cable assembly that ensures tight coupling and minimal loss in efficient and fast energy transfer. In all instances except for high current applications the PSX-R may be added into the system without any changes to the existing components and by merely plugging the unit in.
- In low Power applications such as CD or DVD players the addition of the PSX-R provides a highly stable external Power with massive inertia which ensures ideal battery like operation for such units. In high Power applications, on the other hand, the PSX-R while establishing a very stiff voltage source behind the power amplifier, it successfully inhibits mains related distortions and charging spikes from reaching the signal lines of the amplifier.
- The quality lightweight die-cast enclosure of Cyrus PSX-R 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.

Specification

Electrical

Outputs

±35.5 VDC for stereo power and integrated amplifiers

±18-30 VDC for monobloc power and other amplifiers

±21 VDC for low power applications

Specifications

Load regulation - ±35.5V 0.2% full power when connected to a Cyrus Integrated amplifier

Load regulation - ±21V 0.001% @ 20VA

Line regulation - 0.2% at full output load

Noise - <40µV_{rm}

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

Weight - 6kg

Finish - Silver and Brushed Black

Compatibility

Integrated amplifiers - Cyrus 8, Cyrus 8vs, Cyrus 8vs2, Cyrus 7, Cyrus IIIi, Cyrus III

Tuners - FMX

Pre-amplifiers - Cyrus aCA7, aCA7.5, Phono X, Pre, Pre Xvs, Pre vs2, DACXP

Power amplifiers - Cyrus Power, X-Power, SmartPower, SmartPower Plus, 8 Power

CD players - Cyrus Discmaster, Cyrus Dacmaster, dAD3, dAD3Q, dAD3Q24, dAD7, dAD7Q, CD7, CD8, CD8x, CDXt

Surround Decoders - Cyrus AV master

DVD players - Cyrus DVD7, DVD8