

Sygnus X-1



The Sygnus X-1 is a 1000VA power processor and distribution unit that provides a clean power supply for audio equipment. Both the noise from the mains and the noise caused by the individual audio components are reduced, resulting in a significant improvement in the sound quality of your audio system.

Noise on the mains can seriously degrade the sound quality of an audio system. This almost never manifests itself in obvious ways, such as hum or other audible noise, but rather hides itself in the background. This results, for example, in haze, too much sharpness, limitation of dynamics, loss of musical details or reduction of spatiality. Usually, it is a combination of these unwanted effects.

Galvanic Isolation

The system provides galvanically isolated power outputs, which means that the 230VAC outputs are isolated from the mains. This eliminates most of the common mode noise, which is the key for creating a stable earth as a reference of your audio system.

Balanced power outputs

The outputs contains two phases of 115VAC each, with respect to earth. This ensures that the differential mode noise is balanced with respect to Earth. As a result, the differential mode noise will drain less current to the Earth, which results is a cleaner Earth for your audio system.

Dedicated audio earth

For further improvement, the Sygnus X-1 offers the option to disconnect from the protective earth provided by the wall outlet. This way a dedicated audio earth can be created to optimize the stability of the earth and power of the audio system.

Input and output filters

Filters are applied to both the input and output to fine-tune the system to your liking. These filters can be set when the system is turned on, providing the unique ability to instantly hear the effect of a change in filter settings.

Safety features

The system is equipped with standard safety features, such as a thermal overload protection and a fuse at the input. In addition, the integrated control system constantly monitors the earth leakage current as well as the voltage between the protective earth and the dedicated audio earth. When one of these exceeds the safety threshold, the system is shut down.

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Specifications

Parameter	Minimum	Typical	Maximum	Unit
Electrical characteristics				
Max. constant output power		1000		VA
Efficiency		>96		%
Input voltage	117	230	253	VAC
No load voltage output		230		VAC
Full load voltage output		224		VAC
Input frequency	47	50/60	63	Hz
Inrush Current		<20		A
Connections				
Power input connector		IEC320-C13		
Number of power output connectors		8		
Earth connectors		4x gold plated banana 4mm		
Filtering				
Conversion		Balanced output		
Input filter		Hot configurable LC filter – 3 settings		
Output filter		Hot configurable LC Filter – 8 settings		
Earthing		Selectable dedicated audio earth		
Electromagnetic shielding		Integrated shield & thick steel enclosure		
Protective measures				
Input fuse type		20x5mm cartridge fuse		
Input fuse specification		5AT / 500V / Breaking Capacity 1500A		
Overload protection		Thermal Switch		
Leakage current cut-off		10		mA _{RMS}
Audio Earth voltage cut-off		20		V _{RMS}
General				
Dimensions (WxDxH)		430x400x127		mm
Weight		40		kg
Degree of protection		IP20		