

The Osiris is the culmination of Rega engineers 32 years experience in solid-state amplifier development. A no compromise audio amplifier using state of the art surface mount technology and a fully symmetrical circuit.

Design

A super high performance, 162 Watts into 8Ω (250 Watt 4Ω) dual mono amplifier housed in a custom Rega CNC machined aluminium case with high thermal efficiency heat sinks. Designed around "minimalist" high gain power amplifier and "passive pre-amplifier" circuit topology, a passive volume control and a single stage of power amplification between the input and the speakers the **Osiris** offers unrivalled performance and build quality.

Technology

The **Osiris** uses a low distortion high linearity and bandwidth common base voltage amplifier driver stage. This type of symmetrical circuit topology will provide the necessary voltage swings to enable the **Osiris** to drive any speaker system with the minimum of distortion. Eight Sanken 200 Watt output transistors are used in a "triple" high current output stage enabling the **Osiris** to drive even the most awkward of speaker systems with ease. The cascoded differential input amplifier uses two low noise LED referenced current generators. The open & closed loop feedback levels and gain bandwidth product components are optimised to give a tight and controlled sound stage, especially at the low frequency end of the audio range. Nichicon audio grade capacitors are used in bypass and decoupling positions. Electrolytic capacitors have been bypassed with polyester capacitors where necessary improving on the HF performance. Low inductance film SM power resistors are used in the output stage.

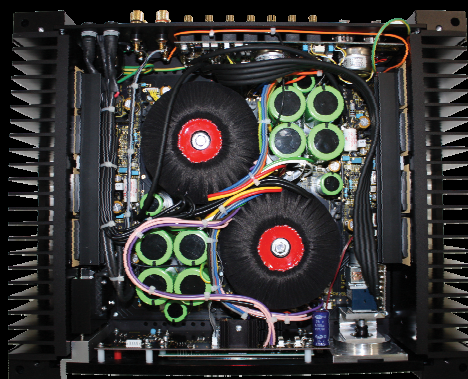
Power Supply

The **Osiris** uses two low noise purpose designed 400VA toroidal transformers using high-grade fully bonded core material. The transformers are mounted to the chassis using Rega's innovative mounting technique, which eliminates noise being transferred from the transformer to the case when the transformers are operating under arduous mains (line) conditions with high levels of asymmetric mains (line) distortion. These transformers combined with 40,000μF of Rega K-Power smoothing capacitors per channel, provide more than enough current to drive the hardest of loads. All the power supplies utilise fast recovery rectifier diodes throughout. (Fast diodes generate less high frequency switching noise therefore giving rise to a cleaner DC). The input and low-level driver stages are fed from a regulated symmetrical tracking power supply with a low noise voltage reference, which provides a fully stabilised low noise voltage, ensuring the highest level of sonic purity. All the dedicated audio power supplies feed only the audio circuits. The input switching, display & micro controller and protection circuits have their own dedicated supplies, keeping the audio signal path as pure as possible.

All these features amalgamate to create the supreme level of performance found in the Osiris and provide a perfect partner for the Rega ISIS Cd player.

Features

- Fully balanced input via XLR
- Thermal cut out
- Electronic thermal DC protection
- Short Circuit Protection
- Galvanically Isolated power supply
- Nichicon Audio Grade Capacitors
- Cascoded differential input
- Direct Input
- High Specification mains lead included
- Custom aluminium **Osiris** remote control



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Specifications (at 160w into 8Ω)

- Power output 162 Watts per channel RMS
- Input sensitivity for 160 Watts into 8Ω 250 Watts into 4Ω
- Amplifier gain: Direct input 44dB
- Record output 215mV into 100K
- Frequency Response 10Hz (-1.7dB point)
- THD + Noise Less than 0.05%
- Power consumption 560W at 115/230V
- Weight 25.6kg