



**MERIDIAN**

REDEFINE THE POSSIBLE

# Prime Power Supply



## Power Supply for Reference Quality

Meridian's Prime Power Supply is a reference-quality, high-current design based on the new linear power supplies developed for Meridian's 800 Reference Series and specifically built for audio applications.

Built into an elegant, compact metal case designed by Allen Boothroyd that echoes the G Series, with no visible screws, and is double-skinned for lower noise, the Meridian Prime Power Supply can be used to power a range of Meridian products including the Meridian Prime Headphone Amplifier, Audio Core 200, Meridian Director and Media Source 200.

The use of this special low-noise, highly regulated linear power supply will help to deliver the highest possible audio performance from these and other systems requiring 12V dc power at up to 500mA. In addition a 5V USB supply is included with audio pass-through.

By affording a single input connection the unit can power several devices, reducing clutter. More significantly, an outboard power supply keeps AC noise away from sensitive audio circuitry.

## True toroidal transformer

At the heart of the Prime Power Supply is a hand-assembled true toroidal transformer. The transformer is a high-mass, low-profile, low magnetic field design. In addition to its integral magnetic shield, it's mounted on a metal plate to shield electronics from noise.

## New very low-noise regulator

Each output on the Prime Power Supply includes multi-stage regulation using a total of six extremely low noise linear regulators. Both the 12V and 5V USB outputs include pre-regulators prior to the output regulators. Even though the 12V outputs are rated at just 500mA, they utilise heavily overspecified 5A linear regulators, selected by a rigorous evaluation process including extensive listening tests.

Meanwhile, the USB supply features a new high-efficiency low-dropout (LDO) linear regulator design that features less than 5 $\mu$ Vrms output noise in the range 10 – 100k Hz.

The design also employs multiple capacitors for noise filtering along with Nichicon audio-grade reservoir capacitors.

## Product highlights

High current, very low noise power supply delivers enhanced performance from a range of Meridian products including the Meridian Prime Headphone Amplifier, Audio Core 200, Meridian Director, Media Source 200, and other devices requiring a high-quality 12V power supply

Linear power supply design inspired by latest 800 Reference Series supply

High-mass, low-profile, low magnetic field, hand-assembled toroidal transformer with integral magnetic screen, plate-mounted to shield electronics from noise

Connect multiple devices to a single Power Supply: single wall connection minimises clutter

High-quality latching 3-pin mini-DIN high-current power output connectors for reliable connection

5 x 12V 500mA outputs for Meridian components; USB 5V 1A output with USB input for audio pass-through – drives Meridian Director, Explorer, Prime Headphone Amplifier and i80

Power input filtering

Dual-stage regulation on all outputs, using very low noise linear regulators

Multiple capacitors for noise filtering; Nichicon audio-grade reservoir capacitors

New, elegant and durable metal enclosure design by Allen Boothroyd, double-skinned for lower noise, offers the distinctive Meridian look with no visible mounting screws

Hand made in Meridian's state-of-the-art headquarters near Cambridge, UK.

## Latching output connectors

The rear panel of the Prime Power Supply features a C3-type power input socket. The mains input is carefully filtered. On the output side are five high-current 3-pin mini-DIN connectors, with a positive latching design to limit the chance of accidental disconnection.

Each socket provides 12V dc at up to 500mA, ideal for a range of Meridian products including the Meridian Prime Headphone Amplifier, Audio Core 200, Meridian Director and Media Source 200.

## USB power with pass-through

In addition there is a USB 5V 1A output designed to drive USB audio devices with reliable, low-noise power. A corresponding USB input is also provided, allowing USB data from a computer or tablet, for example, to be passed through the Power Supply to an output device like the Meridian Explorer, Director or Prime Headphone Amplifier.

The Power Supply cleans up power for any USB device, not solely audio-related items, potentially improving their performance.



## Prime Power Supply Outline Specifications

### Inputs

- 1x IEC C3 3-pole connector
- 1x USB input for audio pass-through

### Outputs

- 5x latching 3-pin mini-DIN connectors providing 12V dc at up to 500mA
- 1x USB output for powering external devices, delivering 5V dc at up to 1A. Passes USB data supplied via the pass-through input
- Outputs include two stages of regulation

### Controls

- Front panel power button

### Indicators

- Illuminated power button shows blue in standby, white when active.

### Power

- Available models include 110–120V ac and 230V ac
- Consumption 60W max

### Construction

- Silver metal finish uniform with G Series

### Dimensions

- Width: 160mm (6.3in); Depth: 150mm (5.9in) plus connectors; Height: 50mm (2.0in)

### Weight

- 1.6 kg ( 3.5 lbs)