

# REFERENCE TWO CHANNEL POWER AMPLIFIER 857



## OVERVIEW

The rack-mount variant of our most powerful reference two channel amplifier has been designed and built to deliver the best possible Hi-Res performance from any high-quality passive loudspeaker system. Bridgeable to over 1.5Kw, the 857 features a totally new design for a Meridian power amplifier, borne out of extensive research, experience and a thorough understanding of psychoacoustic principles.

## PRODUCT HIGHLIGHTS

- Effortless power delivery of 500W per channel into four ohms and bridgeable to >1.5kW mono into four ohms.
- Low-feedback construction provides ultra-low distortion, ensuring an unparalleled level of clarity and transparency across the audible range.
- Balanced and unbalanced inputs are provided, with unbalanced inputs converted to balanced before they enter the amplifier using Meridian's proprietary 'Superbal' technology.
- Designed to operate in thermally hostile environments, including in-rack when the dedicated Meridian 857 rack mount variant is specified.
- When in standby mode, a standing voltage is maintained, meaning that optimum performance can be achieved almost immediately after switching the Meridian 857 on.

# USER FEATURES

As well as balanced and unbalanced inputs, the Meridian 857 is bridgeable via a Bridge Mode Selector switch and also includes a trigger input [3.5mm 5-30 VDC].

In addition, the power amplifier can be bi-wired to a pair of passive loudspeakers via the featured WBT output terminals.

Following any mains power outage, the amplifier will revert to its previous power state. This is useful when the amplifier is located in inaccessible locations.

# TECHNOLOGIES

## ERROR CORRECTION AND LINEARITY

The open-loop characteristics of an amplifier are crucial to its sound quality. The 857 design is intrinsically linear and uses error correction in the output stage to provide low open-loop output impedance. This allows the 857 to achieve impeccable measured performance and a high damping factor while only applying modest amounts of negative feedback.

## 'SUPERBAL'

The use of shunt feedback to eliminate common mode distortion is well known. Meridian's proprietary 'Superbal' circuitry brings this advantage to the balanced input, while also converting unbalanced signals to balanced as they enter the amplifier.



REAR PANEL LAYOUT

# CONSTRUCTION

Includes five secondary transformer windings for maximum isolation between low power and high power parts.

A ground plane design has also been used for optimal signal handling, while WBT output terminals have been provided to allow bi-wiring.

- **Multilayer circuit boards** – ensure the best electromagnetic performance
- **New linear supply** – for isolation from AC supply and increased durability and sound quality.
- **Non-ferrous chassis and panels** – aluminium construction for magnetic linearity

# SPECIFICATION

AUDIO OUTPUTS	• 250W RMS into 8 Ohms per channel both channels driven	• 500W RMS into 4 Ohms per channel both channels driven
	• Bridgeable to >1KW RMS into 8 Ohms	• Bridgeable to >1.5KW RMS into 4 Ohms
	• 4 WBT terminals per side allow bi-wiring	
AUDIO INPUTS	• Two XLR balanced inputs	
	• Two RCA unbalanced inputs	
CONTROL SIGNALS	• Trigger input [3.5mm 5-30 VDC]	
COOLING	• High level of passive cooling for silent in-room running	
	• Six variable speed fans maintain amp functionality if hostile thermal conditions encountered in rack	
DISPLAY	• Backlit touch sensitive logo changes colour to indicate amplifier's status	
	• 'Standby' [BLUE], 'Normal Operation' [GREEN], 'Fans Active' [AMBER], 'Overload' [RED]	
POWER	• Advanced linear power supply: 100V ac 50/60 Hz   110-120V ac 50/60Hz   220-240V ac 50/60Hz	
DIMENSIONS	• HEIGHT: 175mm [6.9in] (4U high)	• WIDTH: 480mm [18.9in]
	• DEPTH: 425mm [16.8in]	• WEIGHT: 35kg [77.1lbs]
CONSTRUCTION	• Black finish in aluminium and glass	
	• Custom Meridian Select colours also available	