



## ► Audiant 100p Stereo Power Amplifier

A no compromise 100 Watt stereo power amplifier combining form and function to create a hugely satisfying amplifier. The MOSFET output transistors and high-current power supply give a potent, dynamic and sophisticated sonic signature; continuing the tradition of previous Perreaux pieces - engaging, purposeful and controlled.

With 100 Watts on tap per channel, fully balanced input circuitry, shunt voltage regulation and power supply filtering; it is amazing what advancements are made in the level of transparency, detail and dynamics. The Audiant 100p power amplifier raises the bar on what is possible in this category.

Once again Perreaux bring you a ground-breaking power amplifier to reconnect you with the MUSIC.

### ► Features

#### **MOSFET Output Transistors**

Using MOSFET output transistors provides a natural and musical valve-like sound while retaining the reliability, durability and consistency of solid state – the best of both worlds.

#### **Fully Balanced Input Circuitry**

The input circuitry is fully balanced from the inputs, including RCA inputs which are converted on entry, to the amplifier section giving improved noise rejection and allowing true 24-bit dynamic range.

#### **High-Current Power Supply**

The custom designed 400VA toroid power transformer and low-impedance capacitors form a high-current and solid power supply that is able to deliver high currents on-demand – allowing loud and dynamic music passages to sound natural and spacious and free from compression.

#### **Power Supply Filtering**

Separate filtered power supplies isolate the sensitive input and voltage stages from noise and variations of the high-current output stage, ensuring precise imaging and separation that remains uncluttered and smear-free when the music gets busy.

#### **High Dynamic Range**

High definition 24-bit recordings have pushed the limits of dynamic range to new levels, no longer is 100dB adequate – with dynamic range exceeding 120dB, the power amplifier reveals the full potential of today's high definition music.

#### **Touch Panel Interface**

#### **Shunt Voltage Regulators**

Several regulated power supplies are used throughout the amplifier and low-noise discrete shunt regulators with high-rejection are employed for the critical input circuitry.

#### **Low Distortion**

Total harmonic distortion reaches levels of 0.001% (-100dB) providing transparent, detailed and accurate sound reproduction to faithfully capture the heart, soul and emotion of music.

#### **Sophisticated Protection**

The sophisticated protection circuitry monitors output current, output DC offset, temperature, DC rail fuses and AC mains voltage – giving confidence and reassurance that your investment will provide a lifetime of trouble-free enjoyment.

#### **Audio-Grade Signal Capacitors**

All capacitors in the signal path are audio-grade capacitors which have been meticulously selected to give a natural and open sound that is detailed without grain or harshness.

#### **Inverted Monocoque Construction**

The aluminium front panel is integrated with the cover, forming a monocoque structure that is very solid and visually appealing. Constructed upside-down, the 10mm thick cover offers unprecedented mechanical stability and integrity while serving as a substantial heat sink.

#### **12V Trigger Input**



## ► Specifications

All measurements taken at 240VAC mains voltage using the balanced input unless otherwise stated.

<b>Line Inputs:</b>	1 Balanced ( <i>XLR</i> ) 1 Unbalanced ( <i>RCA</i> )
<b>Input Impedance:</b>	
Balanced	20k $\Omega$
Unbalanced	47k $\Omega$
<b>Power Output:</b>	100W <sub>rms</sub> into 8 $\Omega$ 145W <sub>rms</sub> into 4 $\Omega$
<b>Input Sensitivity:</b>	
Balanced	1.0V <sub>rms</sub>
Unbalanced	0.5V <sub>rms</sub>
<b>Total Harmonic Distortion (THD+N):</b>	
Typically 20Hz to 20kHz	0.001% @ 1kHz better than 0.02%
<b>Frequency Response</b>	
20Hz to 20kHz	$\pm 0.1$ dB, ref. 8 $\Omega$
<b>Signal to Noise: (<i>un-weighted</i>)</b>	120dB, ref. 100W <sub>rms</sub> into 8 $\Omega$
<b>Dynamic Range:</b>	120dB @ -60dB, ref. 100W <sub>rms</sub> into 8 $\Omega$
<b>Channel Separation:</b>	
Typically 20Hz to 20kHz	100dB @ 1kHz, ref. 100W <sub>rms</sub> into 8 $\Omega$ better than 90dB, ref. 100W <sub>rms</sub> into 8 $\Omega$
<b>Damping Factor:</b>	400 @ 1kHz, ref. 8 $\Omega$
<b>Gain:</b>	
Balanced	29.1dB
Unbalanced	35.1dB
<b>Shunt Voltage Regulators:</b>	✓
<b>Power Supply Filtering:</b>	✓
<b>12V Trigger Input:</b>	✓
<b>Protection Circuitry:</b>	✓
<b>Audio-Grade Signal Capacitors:</b>	✓
<b>Power Consumption:</b>	
Standby	<1W
Idle	60W
Maximum ( <i>145W into 4<math>\Omega</math></i> )	670W
<b>Dimensions:</b>	
Width	431mm (17.0")
Depth	309mm (12.2")
Height	67mm (2.6")
<b>Weight:</b>	12.0kg (26.4lb)



100% Designed and Manufactured in New Zealand