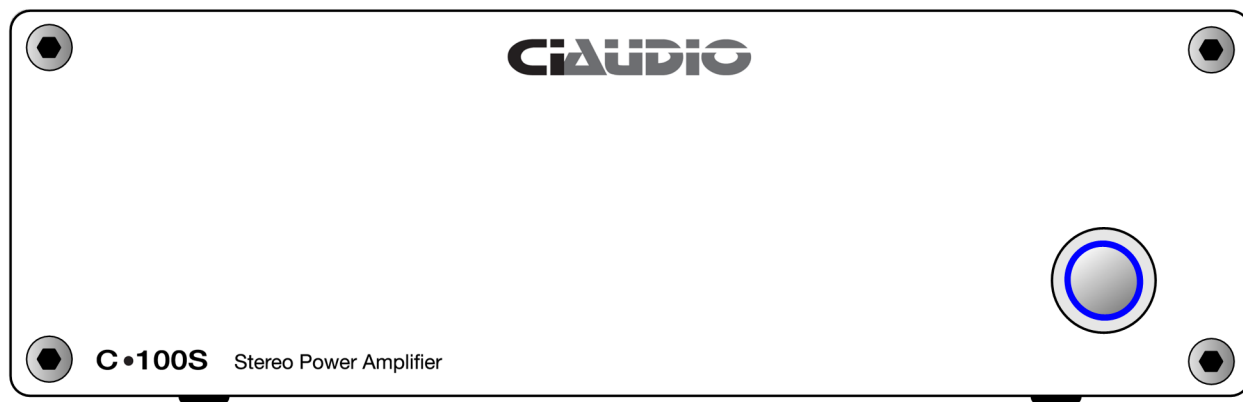




C•100S Stereo Power Amplifier



Thank you for purchasing the **C•100S** Stereo Power Amplifier.

Your CIAudio product has been designed and built to provide many years of musical enjoyment.

This 4th generation amplifier represents the latest in Class D amplifier technology, and offers many advantages over traditional designs:

- Flat frequency response and phase into any conventional speaker load
- Low distortion which is flat vs frequency
- Ultra-low output impedance for excellent control of the loudspeaker
- High efficiency, which results in lower power consumption, low operating temperature, and high reliability
- Compact & light weight package

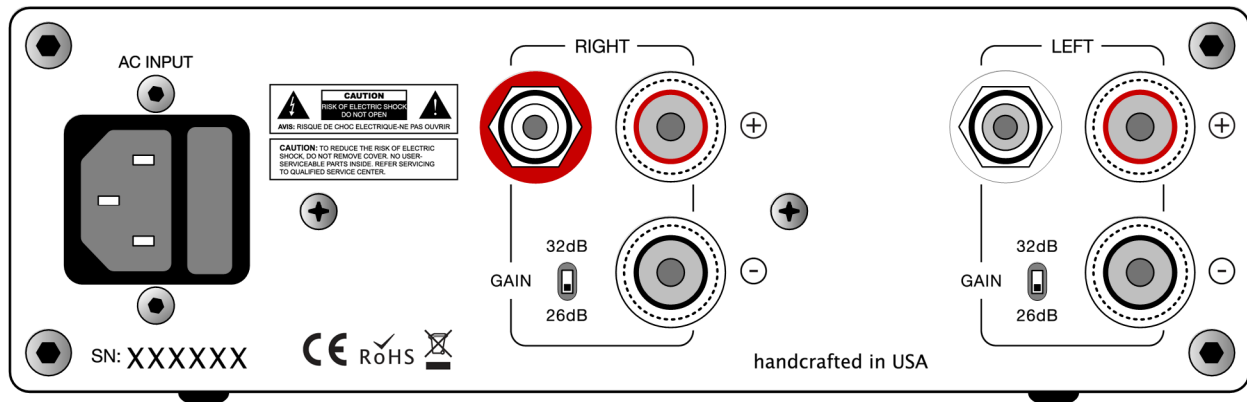
Please read the following guide to familiarize yourself before making any connections to your audio system.

Overview

C•100S is a high power/high performance power amplifier housed in a compact chassis. Due to the high power output, the entire machined aluminum chassis is used as a heat-sink.

Although much more efficient than traditional amplifiers, external chassis temperatures can reach 115° Fahrenheit (46° Celsius).

Amplifier layout is simple and logical with power supply circuitry at the front of the chassis. This allows very short signal paths with our custom input stage board. Signal enters PCB mounted RCA jacks (no wires), through the JFET input stage, into the UCD amplifier module. The entire signal path from input jack to speaker terminals is about 6".



The input stage board also has user-selectable gain via DIP switches. Selections are 26dB (for use with active preamplifiers), or 32dB (for use with passive preamplifiers, PC•4, PLC•1, etc.) See *Installation/Gain Selection* for instructions.

The output stages are patented Hypex UcD modules. These modules contain only the output devices and modulator, and can be easily replaced in event of failure. The patented modulator architecture is the only class D design producing flat frequency response independent of speaker load.

Power is fed by a 400 watt low-noise switching audio power supply, housed in a heavy steel Faraday shield. This complex supply outputs both high voltages/high current to the amplifier output stage and also low voltages for the input stage.

Chassis is heavy machined aluminum with clear anodize/two tone laser engraving and non-magnetic stainless steel hardware, highest quality gold-plated 5-way binding posts and RCA jacks.

Installation

#1 Gain Selection

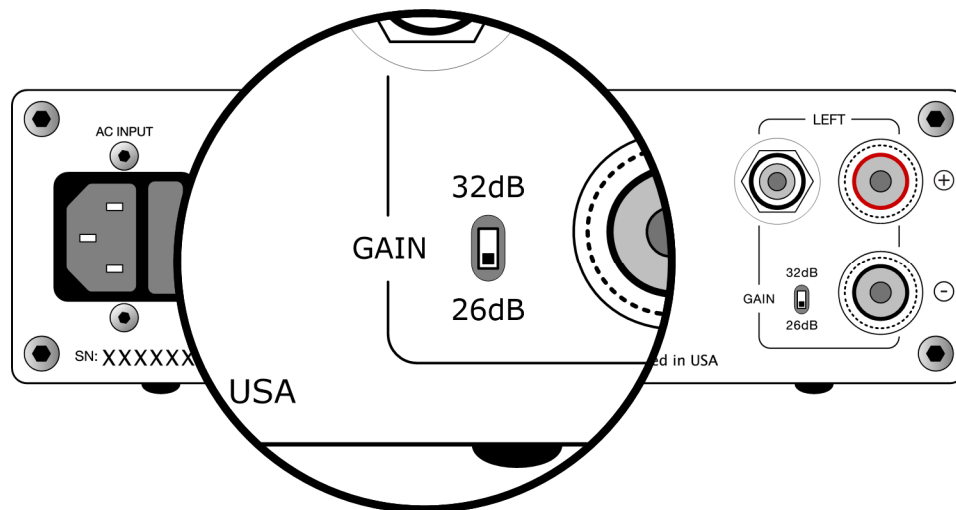
The 1st step is to select the proper gain.

If you're using an active preamp (tube or solid state), or have very efficient loudspeakers ($> 94\text{dB}$), use the default setting as shipped from the factory (26dB).

When using with passive devices such as PLC•1, PC•4, CD or music player with built-in volume control, use the 32dB selection.

Place a soft towel on a well-lit counter and place the disconnected amplifier face down.

Use a wooden toothpick or plastic tuning tool to carefully move the switch to the correct location for each channel.



#2 Find a suitable location

The amplifier should be on a hard surface to allow air to flow through the bottom vents, and have a few inches of air space above and around all sides.

#3 Connections

Connect R & L speakers to corresponding + and – binding posts, paying close attention to polarity.

Connect input cables to corresponding RCA jacks.

Put power switch in the off (out) position, and connect the power cable.

Turn on your preamp/source, and turn volume down.

Turn on C•100S via the front panel switch... and *enjoy the music!*

Specifications

Power Output: 180w per channel into 4 ohms (both channels driven)/100w per channel into 8 ohms (both channels driven).

THD+Noise: <.006% (1 watt/1kHz)

IMD: <0.005%

Input Impedance: 100k ohms (Teflon insulated RCA jacks)

Output Impedance: .015 ohms (5-way binding posts)

Voltage Gain: 26dB/32dB (user-selectable via external DIP switches)

Input Sensitivity: 1.4V/26dB, 0.7V/32dB

Maximum output current: 14A (per channel)

Power consumption: <15w (idle)/90% efficient @ rated power

Dimensions: 8.5"w x 2.75"h x 10"d (including binding posts, etc.)

Weight: 6 lbs (9 lbs shipping weight)

Handcrafted in USA

Your CIAudio Product is covered by our 5 year Parts & Labor Warranty.
To obtain service, contact your dealer, distributor, or our factory.

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