

PRODUCT
SERVO 200

DESCRIPTION
POWER AMPLIFIER

SERIES
SERVO

CATEGORY
AMPLIFIERS



GENERAL DESCRIPTION

The Samson Servo 200 stereo power amplifier has been designed to provide robust, clean output with low distortion and wide dynamic range, along with the dependability demanded by the most professional audio engineers and installers.

The convenient 2 rack-space design is compact, and yet there's plenty of power available. With 2 x 66 Watts at 8Ω, 2 x 100 Watts at 4Ω, over the full frequency spectrum, from 10 Hz to 55 kHz.

For mono applications, a Bridge mode links both channels of the amplifiers, thus providing even more single channel power, with a power rating of 200 watts into an 8 Ohm load.

Input connections are available for both unbalanced RCA connections and balanced 1/4-inch TRS connections. For the outputs, the Servo 200 amplifier provides standard 5-way binding posts and 1/4" phone jacks. Front-panel controls and displays include a power switch with LED indicator, as well as independent left and right channel input level controls. To help you set the correct operating levels, the Servo 200 amplifier includes front panel Signal, Peak and Protection LED indicators. There's also a ten-segment VU meter to help you set a good operating level.

Like all serious power amplifiers, the Servo 200's internal electronics are based around a serious power-core, with an over-sized toroidal transformer and large extruded heat sink. To keep the Servo 200 amplifier running cool, the design employs twin internal wind

tunnels with forced-air cooling via two temperature-sensitive, variable speed fans, which greatly reduce the chance of thermal and overheating problems. Multi-stage protection for power-up, over-heating, over-current, short circuit, low output impedance and DC voltage, assures high reliability under the most demanding situations.

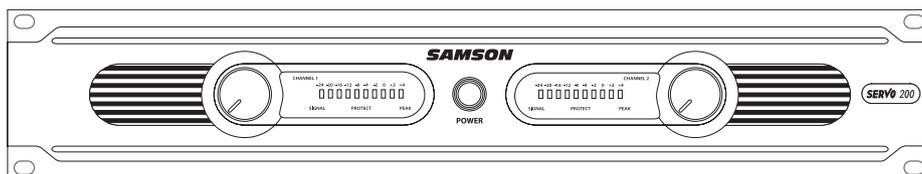
The Servo 200 amp is road tough with its all steel chassis and 19-inch rack mount design. The Servo 200 amplifier is ready for a life on the road, or to make its home in a fixed installation.

Optimized for live sound venues, houses of worship, commercial installations, and for driving small and medium-sized live PA systems, the Servo 200 amplifier will deliver reliable power from gig-to-gig, venue-to-venue and day-to-night.

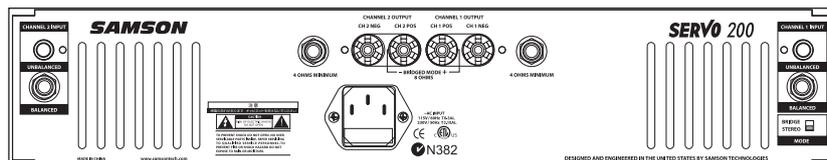
FEATURES

- > Power to spare - 2 x 66 Watts at 8Ω, 2 x 100 Watts at 4Ω
- > For mono applications, a Bridge mode links both channels of the amplifiers, thus providing even more power, with a power rating of 200 watts driving an 8 Ohm load.
- > Clean, crisp sound - Impressive audio specifications such as 0.04% THD, dynamic range of 105 dB, crosstalk of 80 dB, and frequency response of 10 Hz to 55 kHz guarantee ultra-clean sound quality.
- > Independent input level controls for each channel allow precision adjustments.
- > 10 segment LED signal indicators for each channel continuously display power output levels and allow you to correct for overloading (clipping) conditions.

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FRONT PANEL



BACK PANEL

PRODUCT SPECIFICATION SHEET

SERVO 200

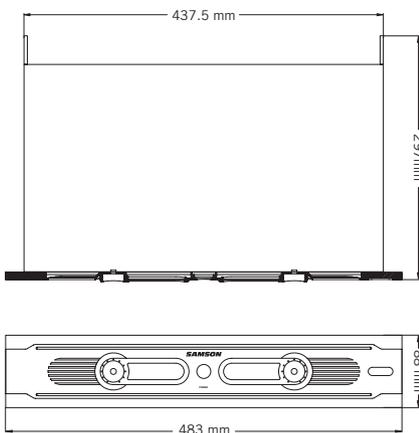
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FEATURES (continued)

- > Unique stable bipolar circuit design that continuously keeps DC output during idling at or near zero volts (thus keeping idle speakers at their zero point). This serves to minimize heat overload problems by effectively preventing the Servo 200 from applying power when unnecessary.
- > Forced air cooling via two temperature-sensitive, variable speed fans provides reliable performance without thermal and overheating problems.
- > Protection relay circuitry (with dedicated LEDs for each channel) that guards against overheating or faulty wiring conditions and also prevents “thumps” when powering on or off. This means that you can use the Servo 200 with a single power strip into which a mixer or other audio devices are connected, without danger of damage to connected speakers.
- > Input connectors for each channel accommodate both RCA or balanced 1/4-inch TRS plugs.
- > Output connections are made via 5-way binding posts.
- > Toroidal transformer power supply for high current and low profile.
- > The Servo 200 can be mounted in any standard 19” rack (taking just two rack spaces), making it easy to integrate the amp into any fixed or traveling PA rig.
- > Rugged construction (an all-steel chassis with a cool gray finish and a lightweight anodized aluminum heat sink) makes the Servo 200 eminently roadworthy.
- > Extended three-year warranty.



ARCHITECT’S & ENGINEER’S SPECIFICATIONS

The Samson Servo 200 shall be a two space, rackmount stereo power amplifier. It shall deliver 100 watts per channel at 4 Ohms or 200 watts into 8 Ohms in bridge mono mode. It shall have 1/4 inch balanced inputs and RCA unbalanced inputs. It shall be a bi-polar design and use a toroidal transformer. The front panel shall have volume controls and LED metering for each channel. The rear panel shall also have 5 way binding posts for the amplifier outputs.

SERVO 200 SPECIFICATIONS

Stereo both channel driven	
8 Ohms.....	66 Watts x 2
4 Ohms.....	100 Watts x 2
Bridged mono	
8 Ohms.....	200 Watts
Signal to Noise Ratio (20Hz-20k) 102dB	
Distortion (SMPTE-IM) 0.05%	
Input sensitivity @8 Ohms 1.24V(4dBu)	
Voltage Gain 32dB	
Output Circuitry Class AB	
AC Power	
@1/8 rated power 4 Ohms, max.	0.4A
@1/3 rated power 4 Ohms, max.	1.1A
@ rated power 4 Ohms, max.	3.3A
Distortion (typical @4 Ohms)	
20Hz-20kHz, 10dB below	
rated power	0.01%
1kHz, rated power	0.1%
Frequency Response	
@8 Ohms, 1 Watt, 20Hz-20kHz.....	20Hz-20kHz
Damping Factor (400Hz)..... 280	
Input Impedance	
	15 kOhm Unbalanced,
	30 kOhm B alanced
Input Clipping 10 Vrms (22dBu)	
Cooling	
	Continuously variable speed,
	fan forced air
Connectors (each channel)	
Input	RCA unbalanced and 1/4”
	(6.3mm) TRS, balanced
Output.....	5-way Binding post and
	1/4” Phone
Controls AC power switch,Channel 1	
	and 2 volume
Indicators	
	Power on (blue), Protection
	(amber), Signal (green) for
	each Ch., Peak(red) for each
	Ch. Level: -24 dB, -20 dB,
	-16 dB, -12 dB, -8 dB, -4 dB,
	-2 dB, 0, +2 dB and +4 dB
	(PEAK).
Protection Short circuit,Thermal,Current	
	limit,DC offset,Current inrush,
	RF protection, Turn on/Turn
	off muting
Power Requirements 115/230, 240VAC, 50/60Hz	
Dimensions (W x H x D)	
	19” x 3.5” x 11.7”
	(483mm x 89mm x 297mm)
Net Weight	
	15 lbs (6.82 kg)