

AV Series Power Amplifier

The half rack AV Series is built to meet the rigorous demands of high quality commercial, industrial and Pro Audio sound installations. Low cost, lightweight and convection cooling make this Class AB amplifier flexible enough for a broad range of applications requiring compact quiet amplification. Like all Stewart products, the AV100 is designed for sonic accuracy, high efficiency, low power consumption and extended duty cycles. In addition to rack mounting, the AV100 has the option of being pole mounted with projection systems.



AV100

100W @ 4 Ohms

100W @ 8 Ohms

Features:

- Compact half rack package
- Low pass filter for Sub Woofer applications
- Built in "Rumble Filter"
- Single Channel amplifier, optimized to drive 4 Ohm and 8 Ohm loads
- Convection cooled (no fans)
- Clean full-range dynamic power
- World class reliability
- Bridgeable
- Ultra efficient switch mode power supply
- Made in the USA

Applications:

- Boardrooms & classrooms
- AV projection systems
- Audio video production
- Pre/Post productions
- Project studios
- Broadcast applications
- Pole mounting option
- Fixed Installations with amplifiers located in listening environment

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Specifications

8 Ohm Power -----	■ 100 W
4 Ohm Power -----	■ 100 W
Frequency Response (+0, -0.5 dB, 1W) -----	■ 30 Hz—20 kHz
Frequency Response (filter on) -----	■ 30 Hz—150 kHz
Power Bandwidth (+3, -3 dB) -----	■ 30 Hz—30 kHz
THD+N -----	■ <.1%
Signal-to-Noise Ratio -----	■ >100dB
Damping Factor -----	■ >200
Slew Rate -----	■ 30V/microsecond
Input Sensitivity -----	■ 1V (0 dBV)
Standard Voltage Gain -----	■ 40X (32dB)
Input impedance (Unbalanced) -----	■ 10k Ohms
Idle Current Draw SW On & 1/8 power draw -----	■ 0.1/0.52 Amps
Class -----	■ AB
Input Connectors -----	■ Dual RCA (Auto stereo summing)
Output Connectors -----	■ Dual 5 way binding post
Power Supply -----	■ 120V AC 60Hz
Cooling -----	■ Convection cooling (No fans)
Controls -----	■ Level/Filter ON/OFF
LED Indicators -----	■ Power & clip
Construction -----	■ Steel Chassis
Dimensions (height, width, depth) -----	■ 1.5"H x 8.12" W x 7.2" D
Weight -----	■ 2.8 lbs (1.27 kg)
Warranty -----	■ 3 years

Architects & Engineering Specifications

The power amplifier shall consist of one channel. Model AV100 shall deliver a minimum of 100W at 8 Ohms, 30 Hz—150 kHz. The amplifier shall have a switchable low pass filter switch. The filter having a pass band of 30Hz to 150Hz. A sharp cut-off rumble filter below 30Hz will also be incorporated into the amplifier. The amplifier shall be convection cooled with no fan required. Amplifiers using fan cooling will not be accepted. The amplifier shall have circuitry to protect itself and the speaker loads from output short circuits, DC voltage on the outputs, and thermal overload. The amplifier shall have a voltage gain of 40X (32dB) and an input Sensitivity of 1V for rated power at 4 Ohm output. The hum and noise level shall be greater than 98 dB below

rated output "A" weighted. The amplifier shall have a high-speed Switch Mode Power Supply. Non Switch Mode Power Supplies will not be accepted. The frequency response shall be greater than 30Hz to 20 kHz +0, - 0.5dB at rated power. The amplifier shall operate on 120VAC. The front panel shall contain LED Clip indicator and Power. The power switch shall be a power supply enable switch. The rear panel shall have a IEC AC line jack, RCA input connectors and binding post output terminals. The AV100 shall weigh 2.8lbs (1.27 kg) and shall be 8.12" (20.6 cm) wide, 1.5" (3.8 cm) high, and 7.2" (18.3 cm) deep. The amplifier shall be designated the Stewart Audio Model AV100.