

# 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 AV50 is designed for sonic accuracy, high efficiency, low power consumption and extended duty cycles. In addition to rack mounting, the AV50 has the option of being pole mounted with projection systems. The AV Series allows bridging to mono for increased power and will also accept unbalanced signals by way of 1/4" TRS input connectors.



One of two pole mount option shown

## AV50

50W x 2 @ 4 Ohms

25W x 2 @ 8 Ohms

100W x 1 @ 8 Ohms bridged

### Features:

- Compact half rack package
- Two 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

**STEWART AUDIO**  
The Difference is Hear

# AV50

50W x 2 @ 4 Ohms

25W x 2 @ 8 Ohms

100W x 1 @ 8 Ohms

## Specifications

8 Ohm Stereo Power -----	■ 25 W
4 Ohm Stereo Power -----	■ 50 W
8 Ohm Bridged Power -----	■ 100 W
Frequency Response (+0, -0.5 dB, 1W) -----	■ 30 Hz—20 kHz
Power Bandwidth (+3, -3 dB) -----	■ 10 Hz—50 kHz
THD+N -----	■ <.1% @ Full Power
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) -----	■ 20k Ohms/10k Ohms
Idle Current Draw SW On & 1/8 power draw -----	■ 0.1/0.52 Amps
Class -----	■ AB
Input Connectors -----	■ RCA, 3.5mm TRS
Output Connectors -----	■ Phoenix Block
Power Supply -----	■ High Speed Switching
Cooling -----	■ Convection-Cooling (No Fans)
Controls -----	■ Recessed Controls, Bridged Mono/Stereo, Pwr
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)

### Architects & Engineering Specifications

The power amplifier shall consist of 2 channels. Model AV50 shall deliver a minimum of 25W at 8 Ohms, both channels driven, 20 Hz—20 kHz, < .1% THD. 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 indicators for each channel and Power. The power switch shall be a power supply enable switch. The Rear panel shall have a IEC AC line jack, recessed level controls, bridge/mono/stereo switch, RCA 3.5mm TRS input terminals and Phoenix block output terminals. The AV50 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 AV50.