

# PA Half Rack Series

## Power Amplifier



The PA Series was specifically designed to meet the rigorous requirements of Sonic Accuracy, High Efficiency, Low Power consumption and extended duty cycles all in a very compact Half Rack Package. Low cost, lightweight and convection cooling make this Amp perfect for high quality commercial, industrial and Pro Audio sound installations. Our flexible design allows bridging to mono for increased power and will also accept balanced or unbalanced signals by way of 1/4" TRS input connectors. With thousands in operation across a broad range of applications, this hardworking Class AB amplifier has passed the test of time again and again.

### PA50B

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:

- Audio Video Production
- Pre/Post Productions
- Project Studios
- Broadcast Applications
- Instrument Rigs
- Sound Reinforcement
- Fixed installations with amplifiers located in listening environment

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## 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, 1) -----	■ 20 Hz—20 kHz
Power Bandwidth (+0, -3 dB) -----	■ 5 Hz—100 kHz
Signal to Noise Ratio (SNR) -----	■ >100dB
THD+N -----	■ <0.1%
Damping Factor -----	■ >200
Slew Rate -----	■ 30V/microsecond
Input Sensitivity -----	■ 1V (0 dBV)
Standard Voltage Gain -----	■ 40X (32dB)
Input impedance (Balanced / Unbalanced) -----	■ 20k Ohms/10k Ohms
Idle Current Draw SW On & 1/8 power draw -----	■ 0.13/0.56 Amps
Class -----	■ A B
Input Connectors -----	■ TRS
Output Connectors -----	■ Terminal Strip
Power Supply -----	■ High Speed Switching
Cooling -----	■ Convection—Cooling (No Fans)
Controls -----	■ Power on/off, Channel Gain
LED Indicators -----	■ Power & Clip
Construction -----	■ Steel & Aluminum Chassis
Dimensions (height, width, depth) -----	■ 1.75”H x 8.2” W x 6.2” D
Weight -----	■ 3.5 lbs
Warranty -----	■

### Architects & Engineering Specifications

The power amplifier shall consist of 2 channels. Model PA50B 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 20Hz to 20 kHz +0, - 0.5dB at rated power. The amplifier shall operate on 120VAC. The front panel shall contain, for each channel, a thru-panel adjust, level control, LED indicators for Clip, and Power. The power switch shall be a power supply enable switch. The Rear panel shall have a captive AC line cord, 1/4” TRS input terminals and terminal strip output terminals. The PA50B shall weigh 3.5lbs (1.6kg) and shall be 8.2” (20.8 cm) wide, 1.75” (4.6 cm) high, and 6.2” (15.7cm) deep. The amplifier shall be designated the Stewart Audio Model PA50B.