

Contractor Series Power Amplifier



The CVA-7800 Contractor Series Power Amplifier delivers more than 400 watts per channel in stereo mode. Stewart Audio's unique power shift correction feature allows the amplifier to produce crystal clear uncolored sound. This remarkable performance comes in a package weighing only 11 pounds while occupying just one standard rack space. Thermal concerns are minimized in the CVA-7800 by innovative circuitry and extraordinary efficiency, making installation simpler than ever before. The design of the CVA-7800 is exceedingly conservative with regard to current capabilities. This ensures that the amplifier's output devices remain within their safe operating area, even under extreme conditions. As a result, the CVA-7800 runs low impedance loads safely while retaining the high impact dynamics for which they were designed.

CVA-7800

400W x 2 Constant Voltage
70.7V RMS out

Features:

- Two Channel Amplifier, optimized to drive a 70.7V line
- Convection Cooled
- Selectable 12dB Per Octave High Pass Filter for each channel (32Hz, 68Hz, or 150Hz)
- 7 Stage Circuit guard Protection
- Stewart's VIF Limiting
- Front Panel Level Adjust with Security Plugs
- Ultra Efficient Switch Mode Power Supply
- Made in the USA
- UL Certified

Applications:

- Full Frequency 70.7V line Applications
- Sound Masking
- Music and Paging Systems
- Engineered Sound
- High Quality Distributed Sound Systems
- Fixed Installations
- Amplifier in Listening Environment
- Remote Turn On/Off Applications

STEWART AUDIO
The Difference is Hear



CVA-7800

400W x 2 Constant Voltage

70.7V rms out

Specifications

70.7 Output power (X2) -----	■ 400W
Frequency Response (+0, -0.5, 1) -----	■ 35 Hz—20 kHz
Power Bandwidth (rated at 70.7V, 1%THD+N) -----	■ 35 Hz—20 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 -----	■ 20k Ohms
Idle Current Draw SW On & 1/8 power draw -----	■ 0.36/1.9 Amps
Class -----	■ H
Input Connectors -----	■ Rear Panel XLR and Barrier
Output Connectors -----	■ Rear Panel 5 Way Binding Post
Power Supply -----	■ High Speed Switching
Remote Turn On -----	■ 5 V
Cooling -----	■ Convection—Cooling (No Fans)
Controls -----	■ On/Off, Gain (screwdriver adjust)
LED Indicators -----	■ Signal present, Clip, Power on
Construction -----	■ Steel & Aluminum
Dimensions (height, width, depth) -----	■ 1.75" x 19" x 15.3"
Weight -----	■ 11 lbs
Warranty -----	■ 3 years Parts & Labor

Architects & Engineering Specifications

The power amplifier shall consist of 2 channels. The model CVA-7800 shall deliver a minimum of 400W at 70.7V, both channels driven, 30 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 an input Sensitivity of 1V for rated power at 70.7V output. The hum and noise level shall be greater than 100 dB below rated output "A" weighted. The amplifier shall have a class H output stage and a high-speed Switch Mode Power Supply. Non Switch Mode Power Supplies will not be accepted. The frequency response shall be greater than 30 Hz to 20 kHz +0, - 0.3dB at rated power. The front

panel shall contain, for each channel, a screwdriver adjust level control with security plug and LED indicators for -20 dB signal present, Clip, and Power. The power switch shall be a power supply enable switch. The Rear panel shall contain a detachable AC line cord, remote turn on/off terminals (activated by the application or removal of a 5 Volt signal source). The rear panel input terminals shall be both XLR and terminal strip. Selectable 12 dB per octave high pass filter (32 Hz, 68 Hz, or 150 Hz) shall be provided for each channel. The amplifier dimensions shall be 19" (48.3 cm) wide, 1.75" (4.6 cm) high, and 15.3" (38.9 cm) deep. The CVA-7800 shall weigh 11 lbs (5 kg). The amplifier shall be designated the Stewart Audio Model CVA 7800.