

# DA Compact Series

## Digital Power Amplifier



The DA-70 Series Professional Series Power Amplifier utilizes a high speed switching power supply and Damped Ternary Modulation Digital output topology. The amplifier will deliver over 70 Watts of power per channel and may be purchased in either a 2 or 4 channel configuration. This remarkable performance comes in a very compact package weighing a mere 3.4 lbs and occupying just one-half standard rack space. The DA-70-4 Series Amplifiers are convection cooled making them extremely quiet so the only sound you will hear are the ones you produce. The All Digital Compact Series was specifically designed to meet the rigorous requirements of Sonic Accuracy, High Efficiency, Low Power consumption and extended duty cycles in a very compact half rack package.

### DA70-4

70W x 4 @ 4 Ohms

35W x 4 @ 8 Ohms

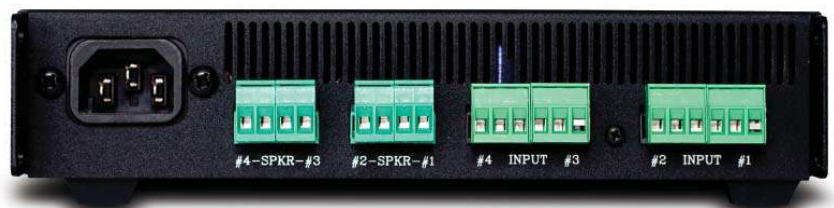
#### Features:

- Ultra Efficient All Digital Design
- Switch Mode Power Supply
- Convection Cooled (No Fans)
- Very Low Power Consumption
- Multi-Channel Compact Half Rack Package
- Optimized To Drive Both 4 & 8 Ohm Loads
- World Class Reliability
- Rack Mount Up To 8 CH In 1U Rack Space.
- Made In The USA

#### Applications:

- Audio Video Production
- Pre/Post Productions
- Project Studios
- Room Combining
- Broadcast Applications
- Board Rooms
- Sound Reinforcement
- Fixed installations with amplifiers located in listening environment

**STEWART AUDIO**  
The Difference is Hear



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35W x 4 @ 8 Ohms

## Specifications

8 Ohm Stereo Power -----	■ 35 Watts/Ch
4 Ohm Stereo Power -----	■ 70 Watts/Ch
Frequency Response (+0, -.5dB, 1) -----	■ 20 Hz-20kHz
Full Power Bandwidth (20 Hz-20kHz) -----	■ ± 0.5dB
Signal to Noise Ratio (SNR) -----	■ >85dB
THD+N -----	■ <0.1%
Input Sensitivity -----	■ 1V (0 dBV)
Standard Voltage Gain -----	■ 17X (25dB)
Input Impedance (Balanced / Unbalanced) -----	■ 10k Ohms/5k Ohms
Idle Current Draw SW On & 1/8 power draw -----	■ 0.16/0.5 Amps
Class -----	■ Damped Ternary Modulation
Input Connectors -----	■ Phoenix Type
Output Connectors -----	■ Phoenix Type
Power Supply -----	■ High Speed Switching
Cooling -----	■ Convection-Cooling (No Fans)
Controls -----	■ Power on/off, Channel Gain
LED Indicators -----	■ Power & Clip
Construction -----	■ Steel & Aluminum Chassis
Operating Voltage -----	■ 120 VAC
Dimensions (h, w, d) -----	■ 1.75"H x 8.26"W x 10.6" D
Max Weight -----	■ 3.4 lbs (1.54kg)
Warranty -----	■ 3 years Parts & Labor

### Architects & Engineering Specifications

The power amplifier shall consist of 4 channels and shall deliver a minimum of 35W at 8 Ohms and 70W at 4 Ohms both/all channels driven, 20 Hz—20 kHz, < .2% 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 17X (25dB) and an input Sensitivity of 1V for rated power at 4 Ohm output. The hum and noise level shall be greater than 85 dB below rated output "A" weighted. The amplifier shall utilize Damped Ternary Modulation Digital Output Topology and have a high-speed Switch Mode Power Supply.

Low efficiency Analog output designs and Non Switch Mode Power Supplies will not be accepted. The frequency response shall be greater than 20Hz to 20 kHz +0, - 0.3dB at 1W. The amplifier shall operate on 120VAC. The front panel shall contain, for each channel, a detented level control, LED indicators for Clip, and Power. The power switch shall be a power supply enable switch. The Rear panel shall have a detachable AC line cord and Phoenix type input and output terminals. The DA70-4 shall weigh 3.4 lbs (1 kg) The dimensions shall be 1.75" (4.6 cm) high, 8.26" (21 cm) wide, and 10.6" (27cm) deep. The amplifier shall be designated the Stewart Audio Model DA70-4.