

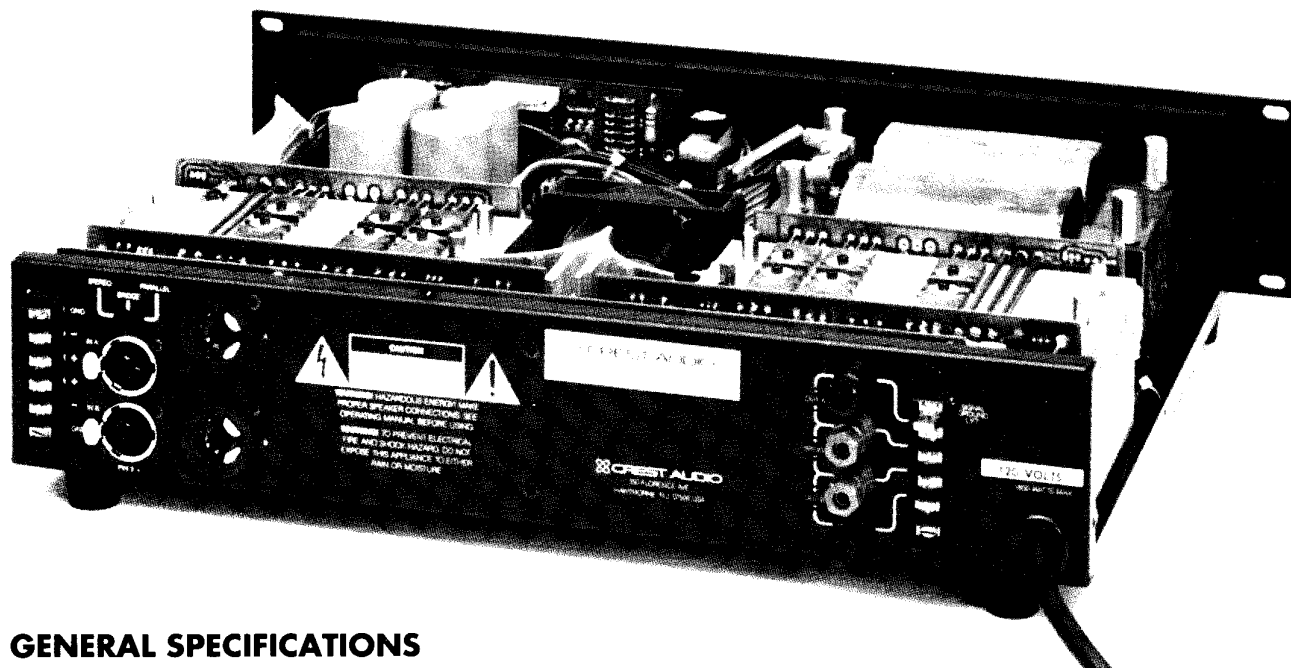


Crest's FA901 is a high quality, cost effective amplifier, designed primarily for use in fixed installations and retail applications. FA Series amplifiers employ many of the features used in Crest's Professional Series amplifiers, and offer sonic performance and reliability previously unavailable in this price range.

Crest's FA Series is constructed from the same high-grade components as the Professional Series. FA's are designed to operate reliably into loads down to  $2\Omega$ . They offer several levels of protection against clipping, elevated temperatures, and DC. Like all Crest amplifiers, the FA's are totally modular, and use an ultra-strong chassis. Developed primarily as a cost effective amplifier, the FA's many features and superior overall performance make them ideal for a wide variety of sound reinforcement applications.

POWER SPECIFICATIONS	FTC <sup>1</sup>	EIA
	20 Hz - 20kHz <0.1% THD	at 1kHz <0.05% THD
8 ohms stereo	225 watts	280 watts
4 ohms stereo	300	350
2 ohms stereo	400 <sup>1,2</sup>	440 <sup>3</sup>
8 ohms bridged	600	750
4 ohms bridged	800 <sup>1,2</sup>	875 <sup>1,2</sup>





**FA**  
SERIES  
**FA901**

## GENERAL SPECIFICATIONS

<b>Max RMS Voltage Swing</b>	49V, each channel
<b>Max Peak Voltage Swing</b>	69V, each channel
<b>Frequency Response</b>	20 Hz - 20 kHz; +0, -5dB at 300W
<b>THD</b>	<0.025% @ 300W into 4 ohms, 1kHz
<b>SMPTE IMD</b>	<0.015% @ 225W into 8 ohms (60 Hz and 7 kHz)
<b>Slew Rate</b>	>14V / $\mu$ s, input filter bypassed
<b>Damping Factor</b>	500 : 1, 1 kHz @ 8 ohms
<b>Input CMRR</b>	greater than 90dB
<b>Voltage Gain</b>	55X standard, others available on request
<b>Input Sensitivity</b>	.775V (0 dBu) for full power at 8 ohms
<b>Input Impedance</b>	20k ohms, balanced
<b>Hum and Noise</b>	-103.7dB, "A" weighted
<b>Connectors (per Ch.)</b>	Female XLR (pin 3 hot), Octal Send/Return sockets, 5-way output binding posts
<b>Power Supply</b>	1.3 kVA power transformer, 29,200 $\mu$ f filter capacitance

\*IGM™ Instantaneous Gain Modulation

<b>Max Current Draw</b>	13.5A, 120V
<b>Cooling</b>	Variable speed DC fan
<b>Controls</b>	2 front panel attenuators, rear panel mode switch, signal ground lift jumper
<b>Indicators</b>	2 Clip LEDs, 2 Signal LEDs, 2 Temp/DC LEDs, Power-On LED
<b>Protection</b>	High temperature, DC, turn-on, and short circuit protection, IGM*
<b>Construction</b>	Single box chassis, 16 ga. steel w/ 0.187" aluminum front panel
<b>Dimensions</b>	3.5"/8.9cm x 19"/48.3cm x 13.5"/34.3cm (14.5"/36.8cm to rear of connectors)
<b>Gross Weight</b>	36 lbs (16.4 kg)
<b>Net Weight</b>	33 lbs (15 kg)
<b>Warranty</b>	2 years, parts and labor

<sup>1</sup>Continuous sine wave bench power is limited by current rating of front panel circuit breaker and IGM circuit.

<sup>2</sup>Subject to variation due to production tolerances.

<sup>3</sup>EIA, 1 kHz, 0.05% THD,  $\pm$ 1dB.

## Architects and Engineers Specifications

The power amplifier shall consist of 2 channels and deliver a minimum of 225 watts into 8 $\Omega$ , 300 watts into 4 $\Omega$  and 400 watts into 2 $\Omega$ ; per channel, both channels driven, 20Hz—20kHz. In bridged mode, the amplifier will deliver 600 watts into 8 $\Omega$  and 800 watts into a 4 $\Omega$  load, 20Hz—20kHz.

The amplifier shall incorporate protection circuitry against output short circuits, DC voltage on outputs, thermal overload, and load protection due to any form of amplifier failure. It will include impedance sensing circuitry, and an RMS clip limiter.

In stereo or parallel operation, the amplifier shall have a voltage gain of 55X with an input sensitivity of .775V for rated power at 8 $\Omega$ . The hum and noise level shall be at least 103.7dB below rated output, "A" weighted. Intermodulation distortion shall be less than 0.015% from 250 milliwatts to full rated power. The amplifier shall have a class AB output stage. The frequency response shall be greater than 20Hz—20kHz, +0, -5dB at rated power.

The amplifier will operate at either 120 or 240 volts, 50—60Hz AC (configured at factory). Maximum current draw at 120V shall be no greater than 12A (limited by front panel breaker for bench tests), both channels driven continuously into a 2 $\Omega$  resistor.

Front panel indicators shall include Protect, Signal Present and Clip LED's for each channel, and a single Power-On LED. Front panel gain pots shall be recessed and detented.

Input connectors shall be XLR type, 3 pin connectors (with pin 3 positive) and screw terminals. Output connectors shall be 5-way binding posts, and screw terminals. Octal sockets will be provided for optional accessory modules, and a signal/ground lift jumper shall be provided.

The packaging of the amplifier shall allow for standard rack mounting without requiring space between similar units. Dimensions shall be 19" (48.3cm) wide, 3.5" (8.9cm) high and 13.5" (34.3cm) deep, (14.5"/36.8cm to rear connectors). Net weight shall be 33 lbs (15kg).

The amplifier shall be designated the Crest Audio Model FA901.

Crest Audio reserves the right to make changes or improvements in manufacturing or design which may affect specifications.

**CREST AUDIO**  
power is serious business.

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