



**FCV220 / FCV440
POWER AMPLIFIERS**

Product Description

Designed with the sound contractor in mind, Crest Audio's Models FCV220 and FCV440 are high-quality amplifiers intended for fixed installations using constant-voltage distributed lines. These cost-effective two rack-space amplifiers make excellent sonic quality and long-term reliability available to even the most price-conscious installations.

The FCV Series amplifiers use the same high-grade components employed in the Crest Audio Professional Series amplifiers and are fan-cooled. An internal mid-chassis fan draws cooling air from the front of the amplifier and exhausts it out the sides. High quality, fully-isolated output transformers are used, providing maximum amplifier protection and freedom from output-related ground loops. Either transformer can be bypassed for driving a speaker directly.

The FCV Series amplifiers are fully compatible in design with other Crest Audio amplifiers, Octal Socket Accessories and the NexSys® computer-controlled audio system.

The FCV chassis is made of heavy 12-gauge steel for rigidity. Attenuator controls, barrier strip outputs, Octal Sockets, and actively balanced inputs are located on the rear panel.

Front panel features include Clip and Status LED indicators and a combined circuit breaker/AC power switch.

As always, Crest Audio performance and reliability come standard.



Crest Audio FCV Series Amplifiers are fully compatible with the NexSys Computer-Controlled Audio system.

Power Specifications	Model FCV220		Model FCV440	
		60 Hz - 18 kHz* <0.1% THD	1 kHz, <0.05% THD	60 Hz - 18 kHz* <0.1% THD
High Impedance † Stereo	110 Watts	120 Watts	220 Watts	240 Watts
4Ω Stereo	110 Watts	120 Watts	220 Watts	240 Watts

*+0, -3dB †Constant voltage line; depends on amplifier configuration



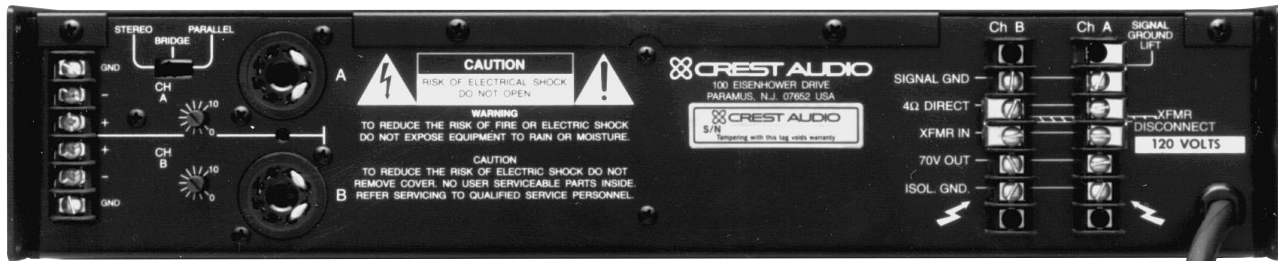
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SPECIFICATIONS

FCV220

FCV440

Frequency Response	60 Hz-18 kHz; +0, -.3dB (110W)	60 Hz-18 kHz; +0, -.3dB (220W)
THD	<0.025% @ 110W into 4Ω, 1kHz	<0.025% @ 220W into 4Ω, 1kHz
SMPTE IMD	<0.015% @ 110W into 4Ω, 60 Hz & 7kHz	<0.015% @ 220W into 4Ω, 60 Hz & 7kHz
Slew Rate	14V / μs, input filter bypassed	14V / μs, input filter bypassed
Damping Factor	250:1, 1kHz @ 8Ω, direct out	250:1, 1kHz @ 8Ω, direct out
Input CMRR	>90 dB	>90 dB
Voltage Gain (direct out)	X27 standard, others upon request	X38.3 standard, others upon request
Input Sensitivity	.775V RMS for rated power @ 8Ω, or into constant-voltage line	.775V RMS for rated power @ 8Ω, or into constant-voltage line
Input Impedance	20kΩ, actively balanced	20kΩ, actively balanced
Hum and Noise ("A" Weighted)	>103.7 dB	>103.7 dB
Cross Talk	>80 dB	>80 dB
Connectors (per channel)	Input/Output Barrier Strips, Octal Socket	Input/Output Barrier Strips, Octal Socket
Power Supply	540 VA power transformer, 20,000 μf filter capacitance	540 VA power transformer, 20,000 μf filter capacitance
Max Current Draw	7.5A/4.0A (120VAC/240VAC)	10.0A/5.0A (120VAC/240VAC)
Cooling	Variable-speed DC fan	Variable-speed DC fan
Controls	Front panel circuit breaker/power switch, 2 rear-panel attenuators, signal ground lift jumper.	Front panel circuit breaker/power switch, 2 rear-panel attenuators, signal ground lift jumper.
LED Indicators (per channel)	Clip, bi-color Active/Protect	Clip, bi-color Active/Protect
Protection	High Temp, DC, turn-on/off transient, short-circuit, subsonic	High Temp, DC, turn-on/off transient, short-circuit, subsonic
Construction	12 gauge single box steel chassis	12 gauge single box steel chassis
Dimensions (H x W x L)	3.5"x19"x14" (15" to rear mounting ears) 89mm x 483mm x 356mm (381mm to rear mounting ears)	3.5"x19"x14" (15" to rear mounting ears) 89mm x 483mm x 356mm (381mm to rear mounting ears)
Gross Weight	42.0 lbs (19.06 kg)	50.0 lbs (22.70 kg)
Net Weight	37.6 lbs (17.07 kg)	45.5 lbs (20.65 kg)
Warranty	3 years, parts and labor	3 years, parts and labor



Architect's Specifications FCV220

The power amplifier shall have two channels. Each shall deliver a minimum of 110 watts into 4 Ohms or into a constant voltage line per channel, both channels driven, 60Hz - 18kHz. The amplifier shall be fan-cooled. It shall have circuitry to protect itself and the speaker load from output short circuits, DC voltage on outputs, and thermal overload. Output relays shall protect the speakers from any type of amp failure. The amplifier shall have a voltage gain of 27x, with an input sensitivity of 0.775 volt for rated power or into a constant-voltage line. The hum and noise level shall be greater than 103.7dB, "A" weighted, below the rated output. SMPTE IND at the direct output shall be less than 0.015% at rated power, 60Hz and 7kHz. The amplifier shall have a Class AB output stage, a transformer-coupled output for high-impedance distributed lines, and a combination power switch/magnetic circuit breaker. The amplifier shall also provide a means of bypassing the transformer for direct output to 8 Ohm or 4 Ohm speaker loads. The transformer outputs shall have a frequency response equal to or greater than 60Hz-18kHz, +0, -.3dB, at rated power. The amplifier shall operate on 120, 230, or 240 volts, +5/-10%, 50 or 60Hz AC (configured at factory). Maximum current draw shall not exceed 7.5 amperes at 120VAC or 4 amperes at 240VAC (limited by front panel breaker for bench tests), both channels driven into a 4 ohm resistance. Front panel indicators shall include a Clip/Limit LED and a bi-color Active/Protect LED for each channel. The rear panel shall have an attenuator for each channel. The inputs shall be actively balanced, with rear-panel barrier strips. Octal accessory sockets and a signal/ground lift jumper will be provided. The amplifier's packaging shall allow for standard rack mounting without requiring space between similar units. Dimensions shall be 3.5" (8.89cm) high, 19" (48.26cm) wide, and 14" (35.56cm) deep. The FCV220 shall have a net weight of 42.0 lbs. (19.06kg). The amplifier shall be designated the Crest Audio Model FCV220.

Architect's Specifications FCV440

The power amplifier shall have two channels. Each shall deliver a minimum of 220 watts into 4 Ohms or into a constant voltage line per channel, both channels driven, 60Hz - 18kHz. The amplifier shall be fan-cooled. It shall have circuitry to protect itself and the speaker load from output short circuits, DC voltage on outputs, and thermal overload. Output relays shall protect the speakers from any type of amp failure. The amplifier shall have a voltage gain of 38.3x, with an input sensitivity of 0.775 volt for rated power or into a constant-voltage line. The hum and noise level shall be greater than 103.7dB, "A" weighted, below the rated output. SMPTE IND at the direct output shall be less than 0.015% at rated power, 60Hz and 7kHz. The amplifier shall have a Class AB output stage, a transformer-coupled output for high-impedance distributed lines, and a combination power switch/magnetic circuit breaker. The amplifier shall also provide a means of bypassing the transformer for direct output to 8 Ohm or 4 Ohm speaker loads. The transformer outputs shall have a frequency response equal to or greater than 60Hz-18kHz, +0, -.3dB, at rated power. The amplifier shall operate on 120, 230, or 240 volts, +5/-10%, 50 or 60Hz AC (configured at factory). Maximum current draw shall not exceed 10 amperes at 120VAC or 5 amperes at 240VAC (limited by front panel breaker for bench tests), both channels driven into a 4 ohm resistance. Front panel indicators shall include a Clip/Limit LED and a bi-color Active/Protect LED for each channel. The rear panel shall have an attenuator for each channel. The inputs shall be actively balanced, with rear-panel barrier strips. Octal accessory sockets and a signal/ground lift jumper will be provided. The amplifier's packaging shall allow for standard rack mounting without requiring space between similar units. Dimensions shall be 3.5" (8.89cm) high, 19" (48.26cm) wide, and 14" (35.56cm) deep. The FCV440 shall have a net weight of 45.5 lbs. (20.65kg). The amplifier shall be designated the Crest Audio Model FCV440.

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Crest Audio Inc.
100 Eisenhower Dr., Paramus NJ 07652 USA
TEL: 201.909.8700 FAX: 201.909.8744
<http://www.crestaudio.com>