

CPX™ Series

Professional Power Amplifiers

CREST
AUDIO®

CPX 1 | CPX 2 | CPX 3 | CPX 4



(CPX 1 model shown)

Description

The Crest Audio® CPX™ series is an affordable line of professional power amplifiers geared toward the touring and install markets.

A tradition of great sound quality, flexibility and reliability is carried over into this Crest Audio series. Industry standard connectors and features make the CPX a great backbone for mobile sound systems, project studios and many other applications. Musicians and DJ's will also find CPX as the power amp of choice.

CPX amps are available in four models, CPX 1, CPX 2, CPX 3 and CPX 4. Power capabilities range from 480 Watts to 1,600 Watts. CPX amps will drive loads that range from 2 to 8 Ohms stereo, or 4 Ohms bridged.

With a comprehensive set of features including built-in signal limiting, low pass filters and low frequency crossovers with direct outputs, the CPX line addresses several applications and serves as a low-cost solution for most power amplification needs.

Exclusive GCL™ (Gain Comparator Limiting) system monitors input/output gain and reduces signal when distortion or excessive high current conditions occur. Protects loudspeakers from dangerous transients and unexpected level changes. Transparent in operation, yet very effective for its designed purpose.

Features

- GCL™ Gain Comparator Limiting system with rear panel defeat switch
- Two channel independent crossovers
 - 150 Hz (CPX 1/2/3)
 - 100 Hz (CPX 4)
- Built-in 40 Hz low cut filter
- Input connectors
 - Combi XLR 1/4" & Barrier Strip (CPX 1/2/3)
 - Combi XLR 1/4" (CPX 4)
- Output connectors
 - 4-pin Twist-Lock & Binding Post (CPX 1/2/3)
 - 4-pin Twist-Lock (CPX 4)
- Link Outs - Balanced line, High and Low Outs via 1/4" TRS jacks plus Low "40Hz" Cut and 150Hz X-Over switches for each channel. Note: 100Hz X-Over & High Out only for CPX 4.
- Mode selector switch for stereo and bridged-mono operation
- Two speed DC Fan
- Toroidal power transformer
- Line voltage selector switch for 115V or 220-240V AC operation



(CPX 1 model shown)

CPX™ Series - Professional Power Amplifiers Specifications

	CPX 1	CPX 2	CPX 3	CPX 4
Rated Power @ 115 VAC or 220-240 VAC				
Stereo® Mode				
2 Ω, 1 kHz, 1% THD (RMS per channel)	300 W	450 W	625 W	800 W
4 Ω, 1 kHz, 1% THD (RMS per channel)	480 W	690 W	1,250 W	1,600 W
8 Ω, 1 kHz, 1% THD (RMS per channel)	290 W	430 W	750 W	1,005 W
Bridge® Mode (Mono)				
8 Ω, 1 kHz, 1% THD (RMS)	960 W	1,380 W	2,500 W	3,200 W
4 Ω, 1 kHz, 1% THD (RMS)	600 W	900 W	1,250 W	1,600 W
Minimum Load Impedance	2 Ω	2 Ω	2 Ω	2 Ω
Maximum RMS Voltage per channel	50 V	60 V	80 V	97 V
Frequency Response +0, -2 dB @ 1 W				
Stereo mode, both channels driven +0, -2 dB @ 1 W	12 Hz - 35 kHz	12 Hz - 35 kHz	12 Hz - 35 kHz	12 Hz - 35 kHz
Hum & Noise				
"A" weighted, reference to rated power @ 8 Ω	> 88 dB	> 88 dB	> 88 dB	> 88 dB
Crosstalk				
@ 1 kHz, at rated output power @ 8 Ω	> -55 dB	> -55 dB	> -55 dB	> -55 dB
Input Sensitivity RMS Voltage				
@ rated output power, 4 Ω	1.08 V	1.17 V	1.26 V	1.95 V
Input Impedance				
Balanced, XLR (pin 2 positive) & TRS 1/4" Jack	10 kΩ	10 kΩ	10 kΩ	10 kΩ
Overall System Gain per Channel	40X (+32 dB)	40X (+32 dB)	40X (+32 dB)	40X (+32 dB)
Distortion (THD)				
Stereo Mode, both channels driven, 20 Hz - 20 kHz, 10 dB, 4 Ω	< 0.1%	< 0.1%	< 0.1%	< 0.1%
Slew Rate	> 12 V/μs	> 12 V/μs	> 12 V/μs	> 12 V/μs
Damping Factor 8 Ω, 20 Hz - 2 kHz				
Stereo Mode, both channels driven, 8 Ω, 20 Hz - 2 kHz	> 250:1	> 250:1	> 250:1	> 400:1
Topology	Class AB	Class AB	Class H	Class H
Limiters (GCL™ - switchable)	Yes	Yes	Yes	Yes
Input Connectors				
Input	2 x 3-pin XLR - 1/4" Jack (TRS) Combo Barrier Strip	2 x 3-pin XLR - 1/4" Jack (TRS) Combo Barrier Strip	2 x 3-pin XLR - 1/4" Jack (TRS) Combo Barrier Strip	2 x 3-pin XLR - 1/4" Jack (TRS) Combo
Link	2 x 1/4" Jack (TRS) High Out 2 x 1/4" Jack (TRS) Low Out / Thru	2 x 1/4" Jack (TRS) High Out 2 x 1/4" Jack (TRS) Low Out / Thru	2 x 1/4" Jack (TRS) High Out 2 x 1/4" Jack (TRS) Low Out / Thru	2 x 1/4" Jack (TRS) High Out
Output Connectors				
Stereo Mode	2 x 4-pin Twist-Lock & Binding Post	2 x 4-pin Twist-Lock & Binding Post	2 x 4-pin Twist-Lock & Binding Post	2 x 4-pin Twist-Lock
Bridge Mode	1 x 4-pin Twist-Lock & Binding Post	1 x 4-pin Twist-Lock & Binding Post	1 x 4-pin Twist-Lock & Binding Post	1 x 4-pin Twist-Lock
Crossover				
Switchable per channel	150 Hz (4 th order Linkwitz-Riley)	150 Hz (4 th order Linkwitz-Riley)	150 Hz (4 th order Linkwitz-Riley)	100 Hz (4 th order Linkwitz-Riley)
Low Cut				
Switchable per channel	-3 dB @ 40 Hz (12 dB per Octave)	-3 dB @ 40 Hz (12 dB per Octave)	-3 dB @ 40 Hz (12 dB per Octave)	-3 dB @ 40 Hz (12 dB per Octave)
Mode Select	Stereo & Bridge Mode	Stereo & Bridge Mode	Stereo & Bridge Mode	Stereo & Bridge Mode
Cooling System				
Temperature dependent, air flow - back to front	1 x Two-Speed DC Fan	1 x Two-Speed DC Fan	1 x Two-Speed DC Fan	2 x Two-Speed DC Fan
Protection				
Amp	Full short circuit, open circuit Over-temp thermal RF Stable into any load	Full short circuit, open circuit Over-temp thermal RF Stable into any load	Full short circuit, open circuit Over-temp thermal RF Stable into any load	Full short circuit, open circuit Over-temp thermal RF Stable into any load
Load	Turn on/off muting DC (triac crowbar) Low-cut filter	Turn on/off muting DC (triac crowbar) Low-cut filter	Turn on/off muting DC (triac crowbar) Low-cut filter	Turn on/off muting DC (triac crowbar) Low-cut filter
Power Consumption				
Stereo Mode, both channels driven @ 1/8 rated output power, 4 Ω	550 W	680 W	600 W	750 W
Mains Voltage	Dual Voltage Selector switch 220-240 & 115 V AC, 50/60 Hz	Dual Voltage Selector switch 220-240 & 115 V AC, 50/60 Hz	Dual Voltage Selector switch 220-240 & 115 V AC, 50/60 Hz	Dual Voltage Selector switch 220-240 & 115 V AC, 50/60 Hz
Mains Connector	IEC	IEC	IEC	IEC
LED Indicators	GCL™/Clipping - Red Signal - Yellow Thermal Protect - Red Power - Green	GCL™/Clipping - Red Signal - Yellow Thermal Protect - Red Power - Green	GCL™/Clipping - Red Signal - Yellow Thermal Protect - Red Power - Green	GCL™/Clipping - Red Signal - Yellow Thermal Protect - Red Power - Green
Dimensions & Weight				
Net Weight	40 lbs (18.2 kg)	45 lbs (20.5 kg)	49 lbs (22.3 kg)	43 lbs (19.5 kg)
Dimensions (HWD)	3.5" x 19" x 15.5" 89 mm x 483 mm x 380 mm	3.5" x 19" x 15.5" 89 mm x 483 mm x 380 mm	3.5" x 19" x 15.5" 89 mm x 483 mm x 380 mm	3.5" x 19" x 16.25" 89 mm x 483 mm x 413 mm

* Repetitive burst @ 20 ms

Architect's & Engineer's Specifications

The power amplifier series shall be a 2RU device offering class AB and H topology models. Each variant shall offer at least two (2) input channels via combi XLR 1/4" jacks with additional barrier strip inputs plus output power being delivered via 4-pin twist-lock sockets for each channel with additional supporting binding post connectivity, unless otherwise noted.

A minimum 290W / 430W / 750W & 1,005W @ 8 ohms shall be available from each respective amp variant. Each variant shall be capable of either stereo or bridged mono configuration from a mode selector switch delivering up to 960W / 1,380 / 2,500 W & 3,200 W in bridge mono mode. Link Outs - Balanced line, High and Low Outs via 1/4" TRS jacks plus Low "40Hz" Cut and 150Hz X-Over switches are supplied for each channel with 100Hz X-Over & High Out only for the higher powered variant.

Frequency response shall be greater than 12 Hz thru 35 kHz +0, -3 dB. The amplifiers shall incorporate protection circuitry against open and short circuits, DC voltage on outputs, thermal overload and RF load protection with front panel LED indicators to display Gain Comparator Limiting/Clipping - red, signal - yellow, thermal protect - red and power - green. Cooling of the amplifier shall be from built-in two (2) speed DC thermo fan. The amplifiers shall support selectable 115V or 220-240V AC operation from a line voltage selector switch.

The professional power amplifier series shall be the Crest Audio CPX series models; CPX 1, CPX 2, CPX 3 and CPX 4 or approved equivalent.



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 Features and specifications subject to change without notice.
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