CREST PERFORMANCE

CPX900 - CPX2600 Power Amplifiers

CPX SERIES

(CPX2600 model shown)

Power Specifications	8Ω stereo	4Ω stereo	2Ω stereo	8Ω bridged	4Ωbridged
1kHz, 0.1% THD+N (2Ω stereo and 4Ω bridged have 1% THD)					
CPX 2600	500w	750w	1100w	1550w	2200w
CPX 1500	300w	500w	750w	1000w	1500w
CPX 900	180w	300w	450w	600w	900w

Features

- GCL Gain Comparator Limiting system with rear panel defeat switch
- Built-in Crossover
  150 Hz, -24 dB per octave Linkwitz-Riley filter, tuned for subs
  Individual in/out switches for Channels A and B
  1/4" daisy chain outputs
- Built-in low cut filter
  -18 dB per octave at 80 Hz
  Individual in/out switches for Channels A and B
- Input connectors - Barrier strip, Female XLR 1/4" TRS
  Pin 2 hot
- Outputs connectors
  Speakons™ for Ch A and B and Bridged mono
  Binding posts for Bridge mode
- Mode selector switch for stereo and bridged-mono operation
- Two speed DC Fan

Protection Circuitry

GCL (Gain Comparator Limiting): 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.

Thermal: Amp monitors internal heat sink temperature and temporarily shuts down during extreme thermal conditions.

DC Triac Crowbar: Prevents amplifier from putting out or receiving dangerous DC over the speaker lines.

Turn On/Off Muting: Outputs are muted during turn on and turn off to prevent audible pop through speakers.

Description

The CPX is an affordable line of amplifiers geared toward the MI and DJ markets. A tradition of great sound quality, flexibility and reliability is carried over into the Crest Performance series. Industry standard connectors and features make the CPX a great backbone for mobile sound systems, project studios and many other applications. Musicians will also find CPX as the power amp of choice.

Power points: Crest CPX amps are available in three models, CPX900, CPX1500 and CPX2600. Power capabilities range from 180 Watts to 2200 Watts. CPX amps will drive loads that range from 8 Ohms stereo to 2 Ohms stereo, or 4 Ohms bridged.

Feature set: 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.

Preliminary Specifications CPX Series Power Amplifiers

	CPX 900	CPX 1500	CPX 2600
stereo power 8Ω	180W	300W	500W
4Ω	300W	500W	750W
2Ω (1% THD)	450W	750W	1100W
bridged mono power 8Ω	600W	1000W	1550W
4Ω (1% THD)	900W	1500W	2200W
	1kHz, 0.1% THD+N Power figures are watts per channel, both channels driven @ 120/240 VAC		
HUM & NOISE:			
Stereo mode Below rated output power, 4 ohms	100 dB	100 dB	100 dB
INPUT SENSITIVITY & IMPEDANCE:	0.87V RMS	1.12V RMS	1.50V RMS
@ rated output power, 4 ohms	(-1.2 dBv)	(+1dBv)	+3.5 (dBv)
Unbalanced, 1/4" phone jack / Balanced, XLR	10K / 20K Ohms	10K / 20K Ohms	10K / 20K Ohms
Overall system gain per channel	40X (+32 dB)	40X (+32 dB)	40X (+32 dB)
DISTORTION			
SMPTE-IM	Less than 0.01%	Less than 0.01%	Less than 0.01%
(THD, typical value)			
Stereo mode, both channels driven, 4 ohms			
20 Hz to 20 KHz, 10dB below rated power	Less than 0.03%	Less than 0.03%	Less than 0.03%
20 Hz to 2 KHz, at full rated power	Less than 0.03%	Less than 0.03%	Less than 0.03%
FREQUENCY RESPONSE:			
+0,-1 dB @ 1W RMS, 4 ohms	20 Hz to 20 kHz	20 Hz to 20 kHz	20 Hz to 20 kHz
+0,-3 dB @ rated output, 4 ohms	5 Hz to 50 kHz	5 Hz to 50 kHz	5 Hz to 50 kHz
DAMPING FACTOR: (Typical value)			
8 ohms, 1 KHz	>300	>300	>300
POWER CONSUMPTION:			
Stereo mode, both channels driven			
@ 1/3 rated output power, 4 ohms 120 VAC	5.0 A	8.0 A	10.0A
TOPOLOGY	Class AB	Class AB	Class H
WEIGHT	40 lbs (18.2 kg)	45 lbs (20.5 kg)	49 lbs (22.3 kg)
DIMENSIONS (all models)	Height: 3.5" (8.9 cm), Width: 19" (48.3 cm), Depth: 14" 35.6 cm)		

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

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