

PROFESSIONAL POWER AMPLIFIERS
Preliminary Specifications

CX

4-channel



All models include an integrated security cover for tamper-proof installations.


The new 4-channel CX amplifiers give you four channels in only two rack spaces—without compromising on power. Choose from three models—a direct 70-volt model and two-low impedance versions—each equipped with our exclusive PowerWave™ switching power supply technology to virtually eliminate noise and hum. With high output power, versatile loading options, high thermal capacity and unmatched reliability, the CX Series is the perfect solution to any permanently installed sound system.

CX 4-Channel Features

- Three models that range in power from 170 watts to 450 watts per channel
- Compact size – all models only 2 RU and 14" deep for reduced rack cost and floor space
- Channels 1&2 and 3&4 bridgeable for maximum flexibility
- Active Inrush Limiting eliminates AC inrush current, removing the need for expensive power sequencers
- HD15 DataPort connector for QSCControl computer control
- Custom integrated security cover for tamper-proof installations
- Zero-idle speed fan for low noise
- 1 dB detented gain controls for fast and accurate gain settings

CX 4-CHANNEL AMPLIFIERS				
Model	70V	8Ω	4Ω	2Ω
CX204V	200×4	•	•	•
CX254	•	170×4	250×4	450×4*
CX404	•	250×4	400×4†	n/a

20 Hz–20 kHz, .05% THD † 1 kHz, 0.1% THD * 1 kHz, 1% THD

- Detachable Euro style input connectors
- DIP switch control for clip limiters, high pass filters, bridge-mono and parallel operation
- Exclusive PowerWave switch-mode power supply technology for high performance and compact size 
- Selectable high-pass filters protect speakers and prevent speaker transformer saturation with minimal effect on program material (33 Hz or 75 Hz on non-V models, 50 Hz or 75 Hz on V models)
- Comprehensive front panel indicators including signal, clip, protect and QSC's exclusive bridge-mono and parallel-input LEDs
- Barrier strip output connector
- Comprehensive protection circuitry including DC, infrasonic, thermal overload and short circuit protection
- High-performance Class AB+B complementary bipolar output circuitry
- Light weight – all models only 21 pounds (9.5 kg) for easier racking and shipping
- 3-year warranty plus optional 3-year extended service contract



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CX SPECIFICATIONS		CX204V		CX254		CX404	
<i>Stereo Mode (all channels driven)</i>		<i>Continuous Average Output Power Per Channel</i>					
8 ohms	0.05% THD 20 Hz-20 kHz	-	-	170 Watts	-	250 Watts	-
4 ohms	0.05% THD 20 Hz-20 kHz	-	-	250 Watts	-	400 Watts†	-
2 ohms	1% THD 1 kHz	-	-	450 Watts	-	not recommended	-
70V	0.05% THD 20 Hz-20 kHz	200 Watts	-	-	-	-	-
70V	0.05% THD 1 kHz	220 Watts	-	-	-	-	-
70V	1% THD 1 kHz	300 Watts	-	-	-	-	-
<i>Bridge Mono Mode</i>		<i>Bridge-Mono Mode Operation</i>					
16 ohms	0.1% THD 20 Hz-20 kHz	-	-	340 Watts	-	500 Watts	-
8 ohms	0.1% THD 20 Hz-20 kHz	-	-	500 Watts	-	800 Watts†	-
4 ohms	1% THD 1 kHz	-	-	900 Watts	-	not recommended	-
140V	0.1% THD 20 Hz-20 kHz	400 Watts	-	-	-	-	-
140V	0.05% THD 1 kHz	440 Watts	-	-	-	-	-
140V	1% THD 1 kHz	600 Watts	-	-	-	-	-
<i>Noise (20Hz-20kHz)</i>		-105 dB	-	-106 dB	-	-106 dB	-
<i>Input Sensitivity</i>		1.26 Vrms	-	1.22 Vrms	-	1.22 Vrms	-
<i>Gain (for full-rated output power)</i>		35 dB @ 70.7v	-	29 dB @ 8 ohms	-	31 dB @ 8 ohms	-
<i>Input Clipping</i>		10 Vrms (+22 dB)	-	10 Vrms (+22 dB)	-	10 Vrms (+22 dB)	-
<i>Output Circuitry</i>		Class AB+B	-	Class AB+B	-	Class AB+B	-
<i>Distortion (SMPTE-IM)</i>		Less than 0.02%	-	Less than 0.01%	-	Less than 0.01%	-
All models		All models					
<i>Distortion (typical)</i> 20 Hz-20 kHz: 10 dB below rated power 1.0 kHz and below: full rated power		Less than 0.01% THD Less than 0.01% THD					
<i>Frequency Response</i>		20 Hz-20 kHz, ± 0.2 dB 8 Hz-50 kHz, +0/-3 dB					
<i>Damping Factor</i>		greater than 500 (1 kHz and below)					
<i>Input Impedance</i>		6 KΩ unbalanced, 12 KΩ balanced					
<i>Connectors</i>		Input: 3 position Euro-style detachable barrier block, Ch 1,2,3 & 4 DataPort: HD-15 Connector, Ch 1+2, Ch 3+4 Output: Six-position barrier strip with monitor connections, Ch 1+2, Ch 3+4					
<i>Cooling</i>		Variable speed fan zero-idle, rear-to-front airflow through tunnel heat sink					
<i>Controls</i>		Front: AC switch, Ch. 1 and Ch.2 gain knobs Rear: DIP switch for Ch.1 and Ch.2: clip limiter on/off, LF filter on/off, LF filter freq select-30 or 75 Hz for none "V" models; 50 or 75 Hz for "V" models; inputs parallel or stereo; bridge mode					
<i>Indicators</i>		PARALLEL INPUTS: Yellow LED		CLIP/PROT: Red LED (1 per channel)			
		BRIDGED: Yellow LED		LEVEL -10 dB: Green LED (1 per channel)			
		PWR-ON: Green LED		LEVEL -20 dB: Green LED (1 per channel)			
				SIGNAL -35dB: Green LED (1 per channel)			
<i>Amplifier Protection</i>		Full short circuit, open circuit, thermal, ultrasonic, and RF protection. Stable into reactive or mismatched loads					
<i>Load Protection</i>		On/off muting, DC-fault power supply shutdown					
<i>Dimensions</i>		19" (48.3 cm) rack mounting, 3.5" (8.9 cm) tall (2 rack spaces), 14" (35.6 cm) deep (from front mounting rails)					
<i>Weight</i>		21 lb (9.5 kg) net, 27 lbs (12.3 kg) shipping					
<i>Power Requirements</i>		100, 120, 230 Vac, 50-60 Hz					
120V CURRENT CONSUMPTION		CX204V	CX254	CX404			
Multiply currents by 0.5 for 230V units. <i>Idle</i>		0.8 A	0.7 A	0.7 A			
<i>1/8 Average Power*</i> (typical of program material at maximum unclipped power) <small>*Pink noise</small>	8 ohms	-	5.8 A	8.1 A			
	4 ohms	-	9.2 A	12.4 A			
	2 ohms	-	14.3 A	not rated			
	70 Volts	8.3 A	-	-			
<i>1/3 Average Power*</i> (typical of program material with severe clipping) <small>*Pink noise</small>	8 ohms	-	8.8 A	12.2 A			
	4 ohms	-	14.2 A	19.3 A			
	2 ohms	-	21.7 A	not rated			
	70 Volts	12.7 A	-	-			



† (0.1% THD 1 kHz)