



CX254 | CX404 CX240V

KEY FEATURES

- Three models that range in power from 170 W to 450 W 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 are bridgeable for maximum flexibility
- Active Inrush Limiting eliminates AC inrush current, removing the need for expensive power sequencers
- DataPort connections enable remote control and monitoring of amplifier functions via Q-SYS™
- Custom integrated security cover for tamper-proof installations
- Variable speed fan for low noise
- 1 dB detented gain controls for fast and accurate gain settings
- Detachable Euro-style input connectors
- DIP switch control for clip limiters, high-pass filters, bridge-mono and parallel operation
- Exclusive PowerLight 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 CX254 and CX404, 50 Hz or 75 Hz on CX240V)
- 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
- Lightweight – all models only 21 lb (9.5 kg) for easier racking and shipping
- 3-year warranty plus optional 3-year extended service contract



CX 4 Series

Professional four-channel power amplifiers

The four-channel CX Series are designed for installation applications requiring premium sound quality and high output. Recognized by sound contractors worldwide for their reliability, CX Series amplifiers feature PowerLight™ power supply technology reducing weight, eliminating AC mains hum and improving audio quality.

The highly efficient power supply also draws less power and produces less heat resulting in added energy savings. CX Series amplifiers also feature advanced amplifier control and monitoring via the Q-SYS Ecosystem.

CX Series 4-Channel Specifications

	CX254	CX404	CX204V
Stereo Mode (all channels driven)	Continuous average output power per channel		
8 Ω / 20 Hz – 20 kHz / 0.05% THD	170 W	250 W	-
4 Ω / 20 Hz – 20 kHz / 0.05% THD	250 W	400 W (0.1% THD, 1 kHz)	-
2 Ω / 1 kHz / 1% THD	450 W	-	-
70 V / 20 Hz – 20 kHz / 0.05% THD	-	-	200 W
70 V / 1 kHz / 0.05% THD	-	-	220 W
70 V / 1 kHz / 1% THD	-	-	300 W
Bridge-Mono Mode			
16 Ω / 20 Hz – 20 kHz / 0.1% THD	340 W	500 W	-
8 Ω / 20 Hz – 20 kHz / 0.1% THD	500 W	800 W (0.1% THD, 1 kHz)	-
4 Ω / 1 kHz / 1% THD	900 W	-	-
140 V / 20 Hz – 20 kHz / 0.1% THD	-	-	400 W
140 V / 1 kHz / 0.05% THD	-	-	440 W
140 V / 1 kHz / 1% THD	-	-	600 W
Noise (20Hz - 20kHz)	-106 dB	-106dB	-105 dB
Input Sensitivity	1.22 Vrms	1.22 Vrms	1.26 Vrms
Gain	29 dB at 8 Ω	31 dB at 8 Ω	35 dB at 70.7 V
Input Clipping	10 Vrms (+22 dBu)	10 Vrms (+22dBu)	10 Vrms (+22 dBu)
Output Circuitry	Class AB+B	Class AB+B	Class AB+B
Distortion (SMPTE-IM)	<0.01%	<0.01%	<0.02%
Distortion (typical)			
20 Hz – 20 kHz: 10 dB below rated power	<0.01% THD		-
1.0 kHz and below: full rated power	<0.01% THD		
Frequency Response	20 Hz - 20 kHz, ± 0.02 dB	8 Hz - 50 kHz, +0/-3 dB	
Damping Factor	>500 (1 kHz and below)		
Input Impedance	6 k Ω unbalanced, 12 k Ω balanced		
Cooling	Variable-speed fan/rear-to-front air flow through tunnel heat sink		
Connectors	Input: 3 position Euro style detachable barrier block, Ch 1, 2, 3 & 4 Dataport: HD-15 Connector, Ch 1+2, Ch 3+4 Output: 6 position barrier strip with dual channel and bridge mono connectors, Ch 1+2, Ch 3+4		
Controls	Front: AC switch, Ch 1, 2, 3 & 4 gain knobs Rear: DIP switch for Ch 1, 2, 3 & 4, clip limiter on/off, LF filter on/off, LF filter freq select 33 Hz or 75 Hz CX254 and CX 404: 50 Hz or 75 Hz CX204 V: inputs parallel or stereo, bridge mode		
Indicators	Parallel inputs: Yellow LED / Bridged: Yellow LED / Power-on: Green LED Clip-Prot: Red LED / Level - 10 dB: Green LED / Level-20 dB: Green LED / Signal-35 dB: Green LED (1 per channel)		
Amplifier Protection	Full short circuit, open circuit, thermal, ultrasonic, and RF protection. Stable into relative or mismatched loads		
Load Protection	On / off muting, DC-fault power supply shutdown		
Dimensions (HWD)	3.5 x 19 x 14 in (89 x 483 x 356 mm)		
Weight - Net	21 lb (9.5 kg)	21 lb (9.5 kg)	21 lb (9.5 kg)
Weight - Shipping	27 lb (12.3 kg)	27 lb (12.3 kg)	27 lb (12.3 kg)
Power Requirements	100, 120, 230 VAC, 50 - 60 Hz (configured at factory)		

CX-Q Series (4-channel Specifications)

		CX254	CX404	CX204V
120 V Current Consumption *				
1/8 power pink noise (typical of program material at maximum unclipped power)	Idle	0.7 A	0.7 A	0.8 A
	8 Ω	5.8 A	8.1 A	-
	4 Ω	9.2 A	12.4 A	-
	2 Ω	14.3 A	NR	-
	70 V	-	-	8.3 A
1/3 power pink noise (typical of program material at maximum unclipped power)	8 Ω	8.8 A	12.2 A	-
	4 Ω	14.2 A	19.3 A	-
	2 Ω	21.7 A	NR	-
	70 V	-	-	12.7 A
140 V / 20 Hz – 20 kHz / 0.1% THD		-	-	400 W
140 V / 1 kHz / 0.05% THD		-	-	440 W
140 V / 1 kHz / 1% THD		-	-	600 W
Watts Per Channel	70 V	-	-	200
	8 Ω	170	250	-
	4 Ω	250	400* **	-
	2 Ω	450*	-	-

* Multiply currents by 0.5 for 230 V units

NR* = Not Recommended due to excessive current draw

20 Hz - 20 kHz, 0.05% THD

* 1 kHz, 1% THD

** 1 kHz, 0.1% THD

CX-254

