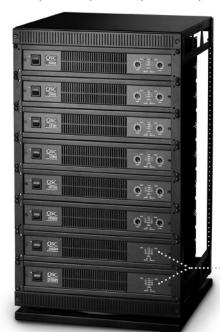


## **CX 2-channel** Professional Power Amplifiers

### CX302 | CX502 | CX702 | CX902 | CX1102 | CX302V | CX602V | CX1202V



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

The CX Series is designed to meet the specialized needs of sound contractors. Eight 2-channel models have been designed from the ground up, combining QSC's exclusive PowerLight<sup>®</sup> technology with specific features to meet the requirements of fixed installations.

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 2-channel Amplifiers**

Model	Watts per channel							
	70V*	8Ω**	4Ω**	$2\Omega^{\dagger}$				
CX302	-	200	325	600				
CX502	-	300	500	800				
CX702	-	425	700	1200				
CX902	-	550	900	1500				
CX1102	_	700	1100	1700				
CX302V	250	_	_	-				
CX602V	440	550	-	_				
CX1202V	1000	700	1100	-				

\*1 kHz, 0.05% THD

\*\*20 Hz – 20 kHz, 0.05% THD †1 kHz, 1% THD

PowerLight is a registered trademark of QSC Audio Products, Inc.

#### Features

- 8 models to meet your exact power requirements (five low impedance models, three 70 volt direct models)
- Exclusive PowerLight switch-mode power supply technology for high performance and compact size
- · 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
- Active inrush limiting eliminates AC inrush current, removing the need for expensive power sequencers
- · XLR and detachable Euro style input connectors
- HD15 DataPort connector for QSControl computer control or signal processing accessories
- · Dip switch control for clip limiters, high pass filters, bridge-mono and parallel operation
- 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
- Class H complementary bipolar output circuitry for high efficiency (CX702, CX902, CX1102 & CX1202V)
- Optional external transformer accessory pack for isolated 70 and 100 volt outputs (converts CX302 to 400 watts per channel isolated output)
- Compact size all models only 2 RU and 14" deep for reduced rack cost and floor space
- Lightweight all models only 21 pounds (9.5 kg) for easier racking and shipping
- 3-year warranty plus optional 3-year extended service contract

# CX 2-Channel

		CX302	CX502	CX702	CX902	CX1102	CX302V	CX602V	CX1202V	
Stereo Mode (both channels driven)				Continuous average output power per channel						
8Ω / 20 Hz - 20 kHz / 0.05% THD		200 W	300 W	425 W	550 W	700 W	-	550 W	700 W	
4Ω / 20 Hz - 20 kHz / 0.05% THD		325 W	500 W	700 W	900 W	1100 W	-	-	1100 W	
2Ω / 1 kHZ / 1% THD		600 W	800 W	1200 W	1500 W	1700 W	-	-	-	
70V / 20 Hz - 20 kHz / 0.05% THD		-	-	_	-	-	200 W	400 W	800 W	
70V / 1 kHz / 0.05% THD		_	-	_	-	-	250 W	440 W	1000 W	
70V / 1 kHz / 1% THD		_	-	-	_	-	300 W	600 W	1200 W	
Bridge Mono Mode				Bridge r	nono mode opera	tion				
16Ω / 20 Hz - 20 kHz / 0.1% THD		400 W	600 W	850 W	1100 W	1400 W	-	1100 W	1400 W	
8Ω / 20 Hz - 20 kHz / 0.1% THD		700 W	1100 W	1500 W	2000 W	2200 W	-	-	2200 W	
4Ω / 1 kHz / 1% THD		1200 W	1600 W	2400 W	3000 W	3400 W	-	-	-	
140V / 20 Hz - 20 kHz / 0.10	% THD	_	-	_	-	-	400 W	800 W	1600 W	
140V / 1 kHz / 0.05% THD		_	-	_	-	-	500 W	880 W	2000 W	
140V / 1 kHz / 1% THD		-	_	-	-	-	600 W	1200 W	2400 W	
Signal to Noise (20 Hz - 20 kHz)		>-107 dB	>-107 dB	>-106 dB	>-106 dB	>-106 dB	>-106 dB	>-106 dB	>-106 dB	
Input Sensitivity at 8Ω		1.26 Vrms	1.23 Vrms	1.16 Vrms	1.17 Vrms	1.35 Vrms	1.26 Vrms	1.26 Vrms	1.26 Vrms	
Gain at 8Ω		30 dB	32 dB	34 dB	35 dB	35 dB	35 dB	35 dB	35 dB	
Output Circuitry		AB+B	AB+B	Class H, 2-tier	Class H, 2-tier	Class H, 2-tier	AB+B	AB+B	Class H, 2-tie	
Distortion (SMPTE-IM)		< 0.02%								
		< 0.02 /0								
Distortion (swiPTE-IM) Distortion (typical)		< 0.02 /0								
	w rated power	< 0.01% THE	)							
Distortion (typical)	•									
Distortion (typical) 20 Hz - 20 kHz: 10 dB below	•	< 0.01% THE	)							
Distortion (typical) 20 Hz - 20 kHz: 10 dB below 1.0 kHz and below: full rate	•	< 0.01% THE < 0.01% THE	)							
Distortion (typical) 20 Hz - 20 kHz: 10 dB below 1.0 kHz and below: full rated Frequency Response	•	< 0.01% THE < 0.01% THE 20 Hz - 20 kł > 500	)	ms balanced						
Distortion (typical) 20 Hz - 20 kHz: 10 dB below 1.0 kHz and below: full rate Frequency Response Damping Factor	•	< 0.01% THE < 0.01% THE 20 Hz - 20 kł > 500	) Hz, ± 0.2 dB palanced, 12k oh	ms balanced						
Distortion (typical) 20 Hz - 20 kHz: 10 dB below 1.0 kHz and below: full rated Frequency Response Damping Factor Input Impedance	•	< 0.01% THE < 0.01% THE 20 Hz - 20 kł > 500 6k ohms unb 10 Vrms (+22	) Hz, ± 0.2 dB palanced, 12k oh							
Distortion (typical) 20 Hz - 20 kHz: 10 dB belov 1.0 kHz and below: full rated Frequency Response Damping Factor Input Impedance Input Clipping	•	< 0.01% THE < 0.01% THE 20 Hz - 20 kł > 500 6k ohms unb 10 Vrms (+22 Variable-spee	) Hz, ± 0.2 dB palanced, 12k oh 2 dBu) ed fan, rear-to-fro		cks (1 each per ch	annel) Output: Sa	fety shrouded b	arrier strip		
Distortion (typical) 20 Hz - 20 kHz: 10 dB below 1.0 kHz and below: full rated Frequency Response Damping Factor Input Impedance Input Clipping Cooling	•	< 0.01% THE < 0.01% THE 20 Hz - 20 kł > 500 6k ohms unb 10 Vrms (+22 Variable-spee Input: 3-pin )	) Hz, ± 0.2 dB palanced, 12k oh 2 dBu) ed fan, rear-to-fro KLR & 3-pin deta	ont air flow				•		
Distortion (typical) 20 Hz - 20 kHz: 10 dB below 1.0 kHz and below: full rate Frequency Response Damping Factor Input Impedance Input Clipping Cooling Connectors	•	< 0.01% THE < 0.01% THE 20 Hz - 20 kł > 500 6k ohms unb 10 Vrms (+22 Variable-spee Input: 3-pin ) Full short circ	) hz, ± 0.2 dB palanced, 12k oh 2 dBu) ed fan, rear-to-fro KLR & 3-pin deta cuit, open circuit,	ont air flow chable terminal blog	, RF protection. Sta			•		
Distortion (typical) 20 Hz - 20 kHz: 10 dB below 1.0 kHz and below: full rated Frequency Response Damping Factor Input Impedance Input Clipping Cooling Connectors Amplifier Protection	•	< 0.01% THE < 0.01% THE 20 Hz - 20 kł > 500 6k ohms unb 10 Vrms (+22 Variable-spee Input: 3-pin ) Full short circ On/off mutin	) Hz, ± 0.2 dB palanced, 12k oh 2 dBu) ed fan, rear-to-fro KLR & 3-pin deta cuit, open circuit, rg, DC-fault pow	ont air flow chable terminal bloo thermal, ultrasonic	, RF protection. Sta	able into reactive of	or mismatched I	oads		
Distortion (typical) 20 Hz - 20 kHz: 10 dB below 1.0 kHz and below: full rated Frequency Response Damping Factor Input Impedance Input Clipping Cooling Connectors Amplifier Protection Load Protection	•	< 0.01% THE < 0.01% THE 20 Hz - 20 kł > 500 6k ohms unb 10 Vrms (+22 Variable-spee Input: 3-pin ) Full short circ On/off mutin 3.5" (8.9 cm)	) Hz, ± 0.2 dB palanced, 12k oh 2 dBu) ed fan, rear-to-fro KLR & 3-pin deta cuit, open circuit, rg, DC-fault pow	ont air flow chable terminal bloo thermal, ultrasonic er supply shutdown 19" (48.3 cm) rack	, RF protection. Sta	able into reactive of	or mismatched I	oads		
Distortion (typical) 20 Hz - 20 kHz: 10 dB below 1.0 kHz and below: full rated Frequency Response Damping Factor Input Impedance Input Clipping Cooling Connectors Amplifier Protection Load Protection Dimensions (HWD)	•	< 0.01% THE < 0.01% THE 20 Hz - 20 kł > 500 6k ohms unb 10 Vrms (+22 Variable-spee Input: 3-pin ) Full short circ On/off mutin 3.5" (8.9 cm)	) Hz, ± 0.2 dB palanced, 12k oh 2 dBu) ed fan, rear-to-fro KLR & 3-pin deta cuit, open circuit, 19, DC-fault powe 2 rack spaces x	ont air flow chable terminal bloo thermal, ultrasonic er supply shutdown 19" (48.3 cm) rack	, RF protection. Sta	able into reactive of	or mismatched I	oads	0.9 A	
Distortion (typical) 20 Hz - 20 kHz: 10 dB belov 1.0 kHz and below: full rated Frequency Response Damping Factor Input Impedance Input Clipping Cooling Connectors Amplifier Protection Load Protection Dimensions (HWD) Weight - Net / Shipping	d power	< 0.01% THE < 0.01% THE 20 Hz - 20 kł > 500 6k ohms unb 10 Vrms (+22 Variable-spee Input: 3-pin <i>X</i> Full short circ On/off mutin 3.5" (8.9 cm) 21 lbs (9.5 kg	) balanced, 12k oh 2 dBu) ed fan, rear-to-fro KLR & 3-pin deta cuit, open circuit, 19, DC-fault pow 2 rack spaces x 3) / 27 lbs (12.3	ont air flow chable terminal bloo thermal, ultrasonic er supply shutdown 19'' (48.3 cm) rack kg)	, RF protection. Sta mounting x 14" (:	able into reactive of 35.6 cm) from fro	nt mounting rail	oads s	0.9 A	
Distortion (typical) 20 Hz - 20 kHz: 10 dB below 1.0 kHz and below: full rated Frequency Response Damping Factor Input Impedance Input Clipping Cooling Connectors Amplifier Protection Load Protection Dimensions (HWD) Weight - Net / Shipping 120V Current Consumption 1/8 power pink noise (typical of program material at	d power	< 0.01% THE < 0.01% THE 20 Hz - 20 kł > 500 6k ohms unb 10 Vrms (+22 Variable-spee Input: 3-pin ) Full short circ On/off mutin 3.5" (8.9 cm) 21 lbs (9.5 kg 0.8 A	) balanced, 12k oh 2 dBu) ed fan, rear-to-fro KLR & 3-pin deta cuit, open circuit, 19, DC-fault pow 2 rack spaces x 3) / 27 lbs (12.3 0.9 A	ont air flow chable terminal bloo thermal, ultrasonic er supply shutdown 19" (48.3 cm) rack kg) 0.9 A	, RF protection. Sta mounting x 14" (: 0.9 A	able into reactive of 35.6 cm) from fro	nt mounting rail	oads s 0.9 A		
Distortion (typical) 20 Hz - 20 kHz: 10 dB below 1.0 kHz and below: full rated Frequency Response Damping Factor Input Impedance Input Clipping Cooling Cooling Connectors Amplifier Protection Load Protection Dimensions (HWD) Weight - Net / Shipping 120V Current Consumption 1/8 power pink noise	d power	< 0.01% THE < 0.01% THE 20 Hz - 20 kf > 500 6k ohms unb 10 Vrms (+22 Variable-spee Input: 3-pin ) Full short circ On/off mutin 3.5" (8.9 cm) 21 lbs (9.5 kg 0.8 A 3.8 A	) hz, ± 0.2 dB palanced, 12k oh 2 dBu) 2 dBu) 2 dfan, rear-to-fro (LR & 3-pin deta cuit, open circuit, 10, 02 rack spaces x 30, 27 lbs (12.3 0.9 A 5.6 A	ont air flow chable terminal bloc thermal, ultrasonic er supply shutdown 19" (48.3 cm) rack kg) 0.9 A 5.0 A	RF protection. Sta mounting x 14" (3 0.9 A 6.0 A	able into reactive of 35.6 cm) from fro 0.9 A 7.6 A	nt mounting rail	oads s 0.9 A		
Distortion (typical) 20 Hz - 20 kHz: 10 dB below 1.0 kHz and below: full rated Frequency Response Damping Factor Input Impedance Input Clipping Cooling Connectors Amplifier Protection Load Protection Dimensions (HWD) Weight - Net / Shipping 120V Current Consumption 1/8 power pink noise (typical of program material at	d power	< 0.01% THE < 0.01% THE 20 Hz - 20 kł > 500 6k ohms unb 10 Vrms (+22 Variable-spee Input: 3-pin ) Full short circ On/off mutin 3.5" (8.9 cm) 21 lbs (9.5 kg 0.8 A 3.8 A 6.0 A	) hz, ± 0.2 dB balanced, 12k oh 2 dBu) d fan, rear-to-frc (LR & 3-pin deta cuit, open circuit, 10, DC-fault powe 2 rack spaces x 3) / 27 lbs (12.3 0.9 A 5.6 A 9.0 A	ont air flow chable terminal blow thermal, ultrasonic er supply shutdown 19" (48.3 cm) rack kg) 0.9 A 5.0 A 7.9 A	RF protection. Sta mounting x 14" (3 0.9 A 6.0 A 9.5 A	25.6 cm) from fro 0.9 A 7.6 A 11.6 A	nt mounting rail	0.9 A -	-	
Distortion (typical) 20 Hz - 20 kHz: 10 dB below 1.0 kHz and below: full rated Frequency Response Damping Factor Input Impedance Input Clipping Cooling Connectors Amplifier Protection Load Protection Dimensions (HWD) Weight - Net / Shipping 120V Current Consumption 1/8 power pink noise (typical of program material at maximum unclipped power) 1/3 power pink noise	d power d power ldle 8Ω 4Ω 2Ω	< 0.01% THE < 0.01% THE 20 Hz - 20 kł > 500 6k ohms unb 10 Vrms (+22 Variable-spee Input: 3-pin A Full short circ On/off mutin 3.5" (8.9 cm) 21 lbs (9.5 kg 0.8 A 3.8 A 6.0 A 9.6 A	D dz, ± 0.2 dB palanced, 12k oh 2 dBu) ed fan, rear-to-fro KLR & 3-pin deta cuit, open circuit, g, DC-fault poww ) 2 rack spaces x g) / 27 lbs (12.3 0.9 A 5.6 A 9.0 A 14.0 A	ont air flow chable terminal bloo thermal, ultrasonic, er supply shutdown 19" (48.3 cm) rack kg) 0.9 A 5.0 A 7.9 A 11.8 A	RF protection. Sta mounting x 14" (3 0.9 A 6.0 A 9.5 A 14.0 A	0.9 A 7.6 A 11.6 A 16.6 A	nt mounting rail	oads s 0.9 A - - -		
Distortion (typical) 20 Hz - 20 kHz: 10 dB belov 1.0 kHz and below: full rated Frequency Response Damping Factor Input Impedance Input Clipping Cooling Connectors Amplifier Protection Load Protection Dimensions (HWD) Weight - Net / Shipping 120V Current Consumption 1/8 power pink noise (typical of program material 1/3 power pink noise (typical of program material	d power d power Idle 8Ω 4Ω 2Ω 70V	< 0.01% THE < 0.01% THE 20 Hz - 20 kł > 500 6k ohms unb 10 Vrms (+22 Variable-spee Input: 3-pin ) Full short circ On/off mutin 3.5" (8.9 cm) 21 lbs (9.5 kg 0.8 A 3.8 A 6.0 A 9.6 A –	D dz, ± 0.2 dB palanced, 12k oh 2 dBu) ed fan, rear-to-fro KLR & 3-pin deta cuit, open circuit, ig, DC-fault pow ) 2 rack spaces x g) / 27 lbs (12.3 0.9 A 5.6 A 9.0 A 14.0 A –	ont air flow chable terminal bloo thermal, ultrasonic er supply shutdown 19" (48.3 cm) rack kg) 0.9 A 5.0 A 7.9 A 11.8 A –	RF protection. Sta mounting x 14" (3 0.9 A 6.0 A 9.5 A 14.0 A –	able into reactive of 35.6 cm) from fro 0.9 A 7.6 A 11.6 A 16.6 A –	0.8 A - - 5.7 A	oads s 0.9 A - - - - 8.7 A	– – – 12.0 A	
Distortion (typical) 20 Hz - 20 kHz: 10 dB below 1.0 kHz and below: full rated Frequency Response Damping Factor Input Impedance Input Clipping Cooling Connectors Amplifier Protection Load Protection Dimensions (HWD) Weight - Net / Shipping 120V Current Consumption 1/8 power pink noise (typical of program material at maximum unclipped power) 1/3 power pink noise	d power d power ldle 8Ω 4Ω 2Ω 70V 8Ω	< 0.01% THE < 0.01% THE 20 Hz - 20 kł > 500 6k ohms unb 10 Vrms (+22 Variable-spee Input: 3-pin A Full short circ On/off mutin 3.5" (8.9 cm) 21 lbs (9.5 kg 0.8 A 3.8 A 6.0 A 9.6 A – 5.4 A	D   dz, ± 0.2 dB   palanced, 12k oh   2 dBu)   ed fan, rear-to-froc   KLR & 3-pin deta   cuit, open circuit,   ug, DC-fault powe   ) 2 rack spaces x   (3) / 27 lbs (12.3)   0.9 A   5.6 A   9.0 A   14.0 A   -   8.0 A	ont air flow chable terminal bloc thermal, ultrasonic er supply shutdown 19" (48.3 cm) rack kg) 0.9 A 5.0 A 5.0 A 7.9 A 11.8 A – 8.4 A	RF protection. Sta mounting x 14" (3 0.9 A 6.0 A 9.5 A 14.0 A – 11.0 A	35.6 cm) from fro 0.9 A 7.6 A 11.6 A 16.6 A - 13.1 A	nt mounting rail 0.8 A - - 5.7 A -	0.9 A - - - 8.7 A -	- - 12.0 A -	



Specifications subject to change without notice.

