

# CX

## 2-channel

### PROFESSIONAL POWER AMPLIFIERS

The all new 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 PowerWave 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 Features

- 8 models to meet your exact power requirements (five low impedance models, three 70-volt direct models)
- Exclusive PowerWave 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 QSCControl computer control or signal processing accessories

Model	Watts per channel			
	70V	8Ω	4Ω	2Ω*
302V	250	•	•	•
602V	440	550	•	•
1202V	1000	700	1100	•
302	•	200	325	600
502	•	300	500	800
702	•	425	700	1200
902	•	550	900	1500
1102	•	700	1100	1700

- 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 w/ch isolated output)
- Compact size – all models only 2 RU and 14" deep for reduced rack cost and floor space
- 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



CX SPECIFICATIONS			CX302	CX502	CX702	CX902	CX1102	CX302V	CX602V	CX1202V
<b>Stereo Mode (both channels driven)</b>			<b>Continuous Average Output Power Per Channel</b>							
8 ohms	0.05% THD	20 Hz-20 kHz	200W	300W	425W	550W	700W	-	550W	700W
4 ohms	0.05% THD	20 Hz-20 kHz	325W	500W	700W	900W	1100W	-	-	1100W
2 ohms	1% THD	1 kHz	600W	800W	1200W	1500W	1700W	-	-	-
70V	0.05% THD	20 Hz-20 kHz	-	-	-	-	-	200W	400W	800W
70V	0.05% THD	1 kHz	-	-	-	-	-	250W	440W	1000W
70V	1% THD	1 kHz	-	-	-	-	-	300W	600W	1200W
<b>Bridge Mono Mode</b>			<b>Bridge-Mono Mode Operation</b>							
16 ohms	0.1% THD	20 Hz-20 kHz	400W	600W	850W	1100W	1400W	-	1100W	1400W
8 ohms	0.1% THD	20 Hz-20 kHz	700W	1100W	1500W	2000W	2200W	-	-	2200W
4 ohms	1% THD	1 kHz	1200W	1600W	2400W	3000W	3400W	-	-	-
140V	0.1% THD	20 Hz-20 kHz	-	-	-	-	-	400W	800W	1600W
140V	0.05% THD	1 kHz	-	-	-	-	-	500W	880W	2000W
140V	1% THD	1 kHz	-	-	-	-	-	600W	1200W	2400W
<b>Noise (20Hz-20kHz)</b>			< -107 dB	< -107 dB	< -106 dB	< -106 dB	< -106 dB	< -106 dB	< -106 dB	< -106 dB
<b>Input Sensitivity @ 8 ohms</b>			1.26Vrms	1.23Vrms	1.16Vrms	1.17Vrms	1.35 Vrms	1.26 Vrms	1.26 Vrms	1.26 Vrms
<b>Gain at 8 ohms</b>			30 dB	32 dB	34 dB	35 dB	35 dB	35 dB	35 dB	35 dB
<b>Output Circuitry</b>			AB+B	AB+B	2-step H	2-step H	2-step H	AB+B	AB+B	2-step H
<b>All models</b>			<b>All models</b>							
<b>Distortion (SMPTE-IM)</b>			Less than 0.02%							
<b>Distortion (typical)</b>			Less than 0.01% THD							
20 Hz-20 kHz: 10 dB below rated power			Less than 0.01% THD							
1.0 kHz and below: full rated power			Less than 0.01% THD							
<b>Frequency Response</b>			20 Hz-20 kHz, ± 0.2 dB							
<b>Damping Factor</b>			Greater than 500							
<b>Input Impedance</b>			6 KΩ unbalanced, 12 KΩ balanced							
<b>Input Clipping</b>			10 Vrms (+22dBu)							
<b>Cooling</b>			Variable-speed fan, rear-to-front air flow							
<b>Connectors</b>			Input: 3-pin XLR & 3-pin detachable terminal blocks (1 each per channel) Output: Safety-shrouded barrier strip							
<b>Amplifier Protection</b>			Full short circuit, open circuit, thermal, ultrasonic, and RF protection. Stable into reactive or mismatched loads							
<b>Load Protection</b>			On/off muting, DC-fault power supply shutdown							
<b>Dimensions</b>			19" (48.3 cm) rack mounting, 3.5" (8.9 cm) tall (2 rack spaces), 14" (35.6 cm) deep (from front mounting rails)							
<b>Weight</b>			21 lb (9.5 kg) net, 27 lb (12.3 kg) shipping							
<b>CURRENT CONSUMPTION</b>			<b>CX302</b>	<b>CX502</b>	<b>CX702</b>	<b>CX902</b>	<b>CX1102</b>	<b>CX302V</b>	<b>CX602V</b>	<b>CX1202V</b>
Idle			0.8 A	0.9 A	0.9 A	0.9 A	0.9 A	0.8 A	0.9 A	0.9 A
1/8 Average Power* (typical of program material at maximum unclipped power) <small>* Pink noise</small>	8 ohms		3.8 A	5.6 A	5.0 A	6.0 A	7.6 A	-	-	-
	4 ohms		6.0 A	9.0 A	7.9 A	9.5 A	11.6 A	-	-	-
	2 ohms		9.6 A	14 A	11.8 A	14 A	16.6 A	-	-	-
	70 Volts		-	-	-	-	-	5.7 A	8.7 A	12 A
1/3 Average Power* (typical of program material with severe clipping) <small>* Pink noise</small>	8 ohms		5.4 A	8.0 A	8.4 A	11 A	13.1 A	-	-	-
	4 ohms		8.9A	13.3 A	13.5 A	17 A	20 A	-	-	-
	2 ohms		14.3 A	21 A	22 A	27 A	-	-	-	-
	70 Volts		-	-	-	-	-	8 A	13 A	19 A



Specifications subject to change without notice.