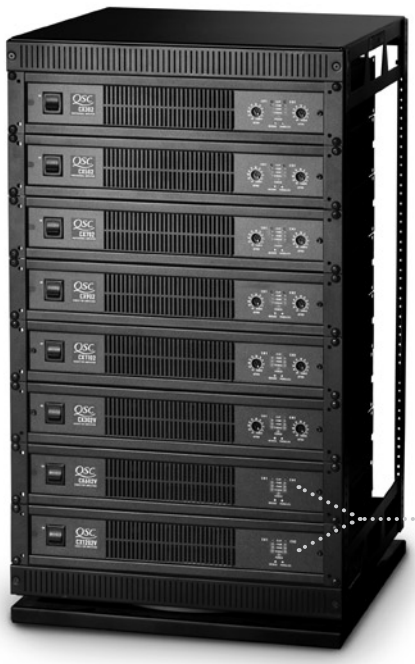
CX 2-channel
Professional Power Amplifiers

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 the exclusive QSC PowerLight™ 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

		Watts per channel		
Model	70 V*	8Ω**	4Ω**	2Ω†
CX302	–	200	325	600
CX502	–	300	500	800
CX702	–	425	700	1200
CX902	440	550	900	1500
CX1102	1000	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

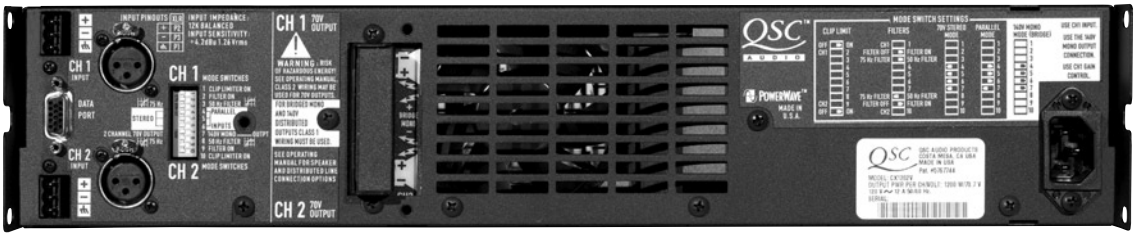
Features

- 8 models to meet your exact power requirements
- 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

Specifications

		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		–	–	–	400 W	800 W	200 W	400 W	800 W
70V / 1 kHz / 0.05% THD		–	–	–	440 W	1000 W	250 W	440 W	1000 W
70V / 1 kHz / 1% THD		–	–	–	600 W	1200 W	300 W	600 W	1200 W
Bridge-Mono Mode				Bridge-mono mode operation					
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 / 0.1% THD		–	–	–	800 W	1600 W	400 W	800 W	1600 W
140V / 1 kHz / 0.05% THD		–	–	–	880 W	2000 W	500 W	880 W	2000 W
140V / 1 kHz / 1% THD		–	–	–	1200 W	2400 W	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		Class AB+B	Class AB+B	2-tier Class H	2-tier Class H	2-tier Class H	Class AB+B	Class AB+B	2-tier Class H
Distortion (SMPTE-IM)		< 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, ± 0.2 dB							
Damping Factor		> 500							
Input Impedance		6k ohms unbalanced, 12k ohms balanced							
Input Clipping		10 Vrms (+22 dBu)							
Cooling		Variable-speed fan, rear-to-front air flow							
Connectors		Input: 3-pin XLR & 3-pin detachable terminal blocks (1 each per channel) Output: Safety shrouded barrier strip							
Amplifier Protection		Full short circuit, open circuit, thermal, ultrasonic, RF protection. Stable into reactive or mismatched loads							
Load Protection		On/off muting, DC-fault power supply shutdown							
Dimensions (HWD)		3.5" (8.9 cm) 2 RU x 19" (48.3 cm) rack mounting x 14" (35.6 cm) from front mounting rails							
Weight - Net / Shipping		21 lb (9.5 kg) / 27 lb (12.3 kg)							
120V Current Consumption	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 power pink noise (typical of program material at maximum unclipped power)	8Ω	3.8 A	5.6 A	5.0 A	6.0 A	7.6 A	–	–	–
	4Ω	6.0 A	9.0 A	7.9 A	9.5 A	11.6 A	–	–	–
	2Ω	9.6 A	14.0 A	11.8 A	14.0 A	16.6 A	–	–	–
	70V	–	–	–	–	–	5.7 A	8.7 A	12.0 A
1/3 power pink noise (typical of program material with severe clipping)	8Ω	5.4 A	8.0 A	8.4 A	11.0 A	13.1 A	–	–	–
	4Ω	8.9 A	13.3 A	13.5 A	17.0 A	20.0 A	–	–	–
	2Ω	14.3 A	21.0 A	22.0 A	27.0 A	–	–	–	–
	70V	–	–	–	–	–	8.0 A	13.0 A	19.0 A



Specifications subject to change without notice.

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