



# Acoustical Surfaces, Inc.

**SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS**

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**We Identify and S.T.O.P. Your Noise Problem**



## CX 8-channel

Professional Power Amplifiers

CX168 | CX108V



Designed for permanently installed sound systems where rackspace is at a premium, QSC's CX108V and CX168 provide unprecedented levels of channel density for multi channel amplifiers. The CX108V and CX168 provide 100 watts per channel at 70 volts and 90 watts per channel at 8 ohms respectively. With both models, each pair of channels may be bridged to configure these amplifiers as 4, 5, 6 or 7 channel units. Like the entire CX Series, the 8 channel models feature DataPorts for remote amplifier management or signal processing, incorporate QSC's legendary PowerLight® technology, and deliver our unmatched reputation for quality and reliability.

QSC's PowerLight technology takes your audio to an entirely new level. Delivering tighter bass and clean, transparent highs, PowerLight also cuts waste heat, boosts reliability, and eliminates unwanted noise and hum. PowerLight is a revolutionary switching power supply technology that provides ample current to the audio power circuitry by charging the supply rails over 200,000 times per second through an ultra-low noise impedance circuit. Unlike amplifiers that use conventional supplies, the audio signal is never starved prematurely and remains crisp and clean.

### CX 8-channel Amplifiers

Model	70V*	Watts per channel	
		8Ω	4Ω**
CX168		8 x 90	8 x 130
CX108V	8 x 100	—	—

20 Hz - 20 kHz, 0.05%THD

\* 20 Hz - 20 kHz, 0.2%THD

\*\*20 Hz - 20 kHz, 0.1%THD

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

### Features

- 100 watts per channel at 70 volts (CX108V)
- 90 watts per channel at 8 ohms and 130 watts per channel at 4 ohms (CX168)
- Compact size – only two rack spaces and 14" deep for reduced rack space
- Channel pairs bridgeable for maximum flexibility
- Exclusive PowerLight switch-mode power supply technology for high performance and compact size
- Active inrush limiting eliminates AC inrush current, removing the need for expensive power sequencers
- Four HD15 DataPorts (one per channel pair) for QSControl computer control or QSC's signal processing accessories
- Custom integrated gain control security cover for tamper proof installations
- 1 dB recessed detented gain controls for fast and accurate settings
- Detachable euro style input and output connectors
- 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 (50 Hz or 75 Hz; CX108V) (33 Hz or 70 Hz; CX168)
- Comprehensive front panel indicators including signal, clip, bridge mono and parallel-input LEDs
- Fully protected – including DC, infrasonic and ultrasonic, thermal overload and short circuit protection
- High-performance Class AB+B complementary bipolar output circuitry
- Lightweight – 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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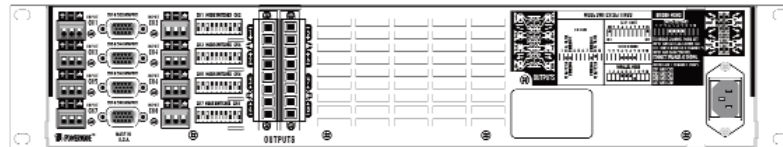
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## CX 8-Channel

## Specifications

	CX168	CX108V
Stereo Mode (all channels driven)	Continuous average output power per channel	
8Ω / 20 Hz - 20 kHz / 0.05% THD	90 W	—
4Ω / 20 Hz - 20 kHz / 0.1% THD	130 W	—
Midband Ratings	All channels driven	Single channel
8Ω / 1 kHz / 0.1% THD	100 W	120 W
4Ω / 1 kHz / 0.1% THD	140 W	180 W
70V / 20 Hz - 20 kHz / 0.2% THD	—	100 W
Bridge Mono Mode	Bridge mono mode operation	
16Ω / 20 Hz - 20 kHz / 0.1% THD	180 W	—
8Ω / 20 Hz - 20 kHz / 0.1% THD	260 W	—
140V / 20 Hz - 20 kHz / 0.2% THD	—	200 W
Signal to Noise (20 Hz - 20 kHz)	-107 dB	-100 dB
Input Sensitivity	1.35 Vrms at 8Ω	1.26 Vrms at 70V
Voltage Gain	20x (26 dB)	56x (35 dB)
Input Clipping	6 Vrms (+18 dBu)	6 Vrms (+18 dBu)
Output Circuitry	AB+B	AB+B
Frequency Response	20 Hz - 20 kHz, +0.2 dB   8 Hz - 50 kHz, +0/ -3 dB	20 Hz - 20 kHz, +0.4 dB   8 Hz - 70 kHz, +0/ -3 dB
Damping Factor	> 200 (5 kHz and below)	> 500 (5 kHz and below)
Input Impedance	6k ohms unbalanced, 22k ohms balanced	6k ohms unbalanced, 22k ohms balanced
Distortion (SMPLE-IM)	< 0.02%	
Distortion (typical)		
20 Hz - 20 kHz: 10 dB below rated power	< 0.1% THD	
1.0 kHz and below: full rated power	< 0.03% THD	
Cooling	Variable-speed fan / rear-to-front air flow through tunnel heat sink	
Connectors	Input: 3-pin euro-style detachable terminal blocks (one per channel) DataPort: HD 15 connector (Ch. 1+2, 3+4, 5+6, 7+8) Output: two 8-pin euro style detachable terminal blocks	
Controls	Front: AC switch, Ch. 1, 2, 3, 4, 5, 6, 7 & 8 gain knobs Rear: DIP switches for Ch. 1 - 8, clip limiter on/off, LF filter on/off, LF filter freq select 55 or 70 Hz for CX168 LF filter freq select 50 or 75 Hz for CX108V, inputs parallel or stereo, bridge mode	
Indicators	Power On: Green LED / Parallel inputs: Orange LED (1 per channel pair) / Signal 35 dB: Green LED (1 per channel) Bridged: Yellow LED (1 per channel pair) / Clip: Red LED (1 per channel)	
Amplifier Protection	Full short circuit, open circuit, thermal, ultrasonic, and RF protection. Stable into reactive or mismatched loads	
Load Protection	On/off muting, individual channel DC fault blocking	
Dimensions (HWD)	3.5" (8.9 cm) 2 rack spaces x 19" (48.3 cm) rack mounting x 14" (35.6 cm) from front mounting rails	
Weight - Net / Shipping	21 lbs (9.5 kg) / 27 lbs (12.3 kg)	
Power Requirements	100, 120, 230 VAC, 50 - 60 Hz (configured at factory)	
120V Current Consumption*	Idle	0.6 A
1/8 power pink noise (typical of program material at maximum unclipped power)	8Ω	6.2 A
	4Ω	9.2 A
	70V	—
	—	6.5 A
1/5 power pink noise (typical of program material with source clipping)	8Ω	9.2 A
	4Ω	14.2 A
	70V	—
	—	9.4 A

\* Multiply currents by 0.5 for 230V units



Specifications subject to change without notice.

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CX 8-Channel Spec Sheet - 02/2016

**QSC**  
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