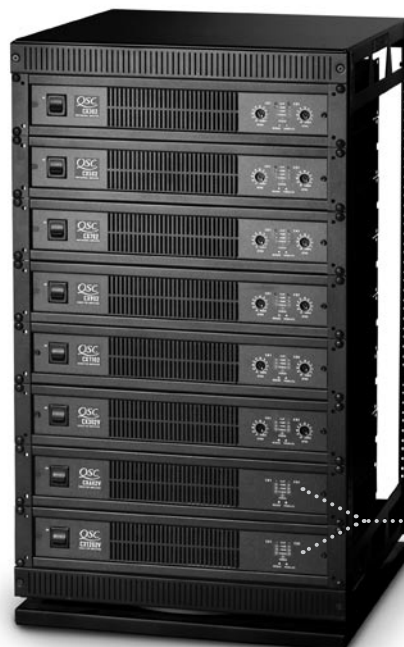




# CX 2-channel

## 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® 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   | 70V* | Watts per channel |      |      |
|---------|------|-------------------|------|------|
|         |      | 8Ω**              | 4Ω** | 2Ω†  |
| 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

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### 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 QSCControl 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

|                                                                                     |      | 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 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                                                    |      | –                                                                                                              | –                                           | –               | –               | –               | 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-tier |
| 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 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)                                                                             |                                             |                 |                 |                 |           |           |                 |
| 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<br>(typical of program material at<br>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<br>(typical of program material<br>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.