



**CROWN**

## CTs SERIES

# CTs Series 2-channel



**B**uilding on the foundation of the Crown® Com-Tech® Series, the CTs Series offers new flexibility and value for installed sound applications. The Com-Tech Series was the first to offer independent selection of high- and low-impedance operation for a specific channel, and CTs Series amplifiers continue that tradition, with power levels and features carefully chosen to perfectly integrate into fixed install design requirements. For added flexibility, the CTs Series includes both dual-channel and multi-channel models.

All models in the CTs Series feature Crown's new Switching Power Supply for lighter weight, and all models are also compatible with Harman Pro System Architect as well as the IQ System®. Two-channel models accept PIP2™ modules, and also feature selectable high-pass filters and input sensitivity for each channel.

In a profession where unplanned service calls quickly wipe out profits, the CTs Series amplifiers are designed to be the most reliable amplifiers you can install.

For more details about the Crown CTs Series, contact Crown Customer Service at 800-342-6939 or 574-294-8200. Also, visit the Crown Audio website at [www.crownaudio.com](http://www.crownaudio.com).

### Features

- Switching Power Supply for reduced weight
- High power-density, with all two-channel models in a 2U chassis
- Direct constant-voltage (70V/100V/140V/200V) or low-impedance (2/4/8 ohm) operation
- Input sensitivity independently selectable for each channel
- TLC protection circuitry protects the amplifier from long-term excessive heat by subtly and dynamically reducing the gain only when necessary
- PIP2 (Programmable Input Processor) connector accepts accessory modules that tailor the amplifier to suit specific applications
- Removable terminal block input connectors, with "Y" Input Switch in the standard PIP2-BBY module
- Switchable high-pass filter for each channel provides low-frequency roll off to eliminate step down transformer saturation when used in distributed systems
- Comprehensive array of indicators including Power, Data and Bridge, along with Ready, Signal, Clip, Thermal and Fault for each channel, provide accurate diagnostics
- Blue Power Indicator flashes if the AC mains is under/over voltage
- Advanced protection circuitry guards against: shorted outputs, DC, mismatched loads, general overheating, under/over voltage, high-frequency overloads and internal faults
- JTs circuitry (CTs 600/1200) quickly protects output transistors from unsafe operating conditions without shutting the channel down
- Legendary Crown AB+B (Multi-Mode®) output topology in the CTs 600/1200 and Class I (BCA®) output topology in the CTs 2000/3000 offer the best in amplifier reliability
- Continuously variable fans optimize cooling efficiency
- Three Year, No-Fault, Fully Transferable Warranty completely protects your investment and guarantees its specifications

### CTs 600

	20 Hz–20 kHz Power
2-ohm Dual (per ch.)	<b>150W</b>
4-ohm Dual (per ch.)	<b>300W</b>
8-ohm Dual (per ch.)	<b>300W</b>
16-ohm Dual (per ch.)	<b>300W</b>
70V Dual (per ch.)	<b>300W</b>
100V* Dual (per ch.)	<b>300W</b>
4-ohm Bridge	<b>300W</b>
8-ohm Bridge	<b>600W</b>
16-ohm Bridge	<b>600W</b>
140V Bridge	<b>600W</b>

20 Hz–20 kHz Power refers to maximum average power in watts from 20 Hz to 20 kHz with 0.1% THD.

\*100Vp

### CTs 2000

	20 Hz–20 kHz Power
2-ohm Dual (per ch.)	<b>1000W</b>
4-ohm Dual (per ch.)	<b>1000W</b>
8-ohm Dual (per ch.)	<b>1000W</b>
16-ohm Dual (per ch.)	<b>625W</b>
70V Dual (per ch.)	<b>1000W</b>
100V Dual (per ch.)	<b>1000W</b>
4-ohm Bridge	<b>2000W</b>
8-ohm Bridge	<b>2000W</b>
16-ohm Bridge	<b>2000W</b>
140V Bridge	<b>2000W</b>
200V Bridge	<b>2000W</b>

20 Hz–20 kHz Power refers to maximum average power in watts from 20 Hz to 20 kHz with 0.35% THD.

### CTs 1200

	20 Hz–20 kHz Power
2-ohm Dual (per ch.)	<b>250W</b>
4-ohm Dual (per ch.)	<b>600W</b>
8-ohm Dual (per ch.)	<b>600W</b>
16-ohm Dual (per ch.)	<b>300W</b>
70V Dual (per ch.)	<b>600W</b>
100V* Dual (per ch.)	<b>600W</b>
4-ohm Bridge	<b>500W</b>
8-ohm Bridge	<b>1200W</b>
16-ohm Bridge	<b>1200W</b>
140V Bridge	<b>1200W</b>

20 Hz–20 kHz Power refers to maximum average power in watts from 20 Hz to 20 kHz with 0.1% THD.

\*100Vp

### CTs 3000

	20 Hz–20 kHz Power
2-ohm Dual (per ch.)	<b>1500W</b>
4-ohm Dual (per ch.)	<b>1500W</b>
8-ohm Dual (per ch.)	<b>1250W</b>
16-ohm Dual (per ch.)	<b>625W</b>
70V Dual (per ch.)	<b>1500W</b>
100V Dual (per ch.)	<b>1500W</b>
4-ohm Bridge	<b>3000W</b>
8-ohm Bridge	<b>3000W</b>
16-ohm Bridge	<b>2500W</b>
140V Bridge	<b>3000W</b>
200V Bridge	<b>3000W</b>

20 Hz–20 kHz Power refers to maximum average power in watts from 20 Hz to 20 kHz with 0.35% THD.

### Specifications

**Minimum Guaranteed Power:** See power charts at left.

**Frequency Response (at 1 watt, 20 Hz - 20 kHz):** ±0.25 dB.

**Signal to Noise Ratio below rated power (20 Hz to 20 kHz):** 105 dB A-weighted.

**Total Harmonic Distortion (THD) at full rated power, from 20 Hz to 20 kHz:** CTs 600/1200: < 0.1%. CTs 2000/3000 < 0.35%.

**Damping Factor:** 10 Hz to 100 Hz: > 3000.

**Crosstalk (below rated power, 20 Hz to 1 kHz):** > 80 dB.

**Common Mode Rejection (CMR) (20 Hz to 1 kHz):** 50 dB.

**DC Output Offset:** < ±2 mV.

**Input Impedance (nominal):** 10 kilohms balanced, 5 kilohms unbalanced.

**Maximum Input Level:** +20 dBu before input compression, +32 dBu absolute maximum.

**Load Impedance:** (Note: Safe with all types of loads)

CTs 600/1200

Stereo: 2/4/8/16 ohms, 70V, 100V

Bridge Mono: 4/8/16 ohms, 140V.

CTs 2000/3000

Stereo: 2/4/8/16 ohms, 70V, 100V

Bridge Mono: 4/8/16 ohms, 140V, 200V.



INSTALLED



CINEMA

# CTs Series 2-channel



### Voltage Gain (at maximum level setting):

8/4 ohm operation, 1.4V sensitivity  
 CTs 600 35:1 (31 dB)  
 CTs 1200 50:1 (34 dB)  
 CTs 2000 63.9:1 (36 dB)  
 CTs 3000 71.4:1 (37 dB).

26 dB: 20:1 (26 dB).

70V operation, 1.4V sensitivity or 100V operation, 2.0V sensitivity: 50:1 (34 dB).

### AC Line Voltage and Frequency Configurations Available ( $\pm 10\%$ ): 120VAC/60Hz, 230VAC/50 Hz.

### Power Draw at Idle (120VAC mains):

CTs 600/1200: 24W (standby mode)  
 CTs 2000/3000: 35W (standby mode).

**Cooling:** Continuously variable speed forced air, front-to-back airflow.

**Dimensions:** 19 in. (48.3 cm) W x 3.5 in. (8.9 cm) H x 14.25 in. (36.2 cm) D.

### Weight: Net, Shipping

CTs 600: 22.8 lb (10.3 kg), 27.7 lb (12.6 kg)  
 CTs 1200: 23.4 lb (10.6 kg), 28.3 lb (12.8 kg)  
 CTs 2000: 27.0 lb (12.2 kg), 32.0 lb (14.5 kg)  
 CTs 3000: 27.7 lb (12.6 kg), 32.7 lb (14.8 kg).

### Front Panel Controls and Indicators

**Bridge Mode Indicator:** Yellow LED illuminates when the rear-panel Mode Switch is set to the "Bridge" position.

**Ready Indicator:** Green LED, one per channel, illuminates when the channel is initialized and ready to produce audio output. Indicator is off when PIP puts the amplifier in standby mode via the control system.

**Signal Indicators:** Three green LEDs per channel indicate the amplifier's input and output signal levels.

Signal: input signal is above  $-40$  dBu.  
 $-20$  dB: amplifier output is 20 dB below clipping.  
 $-10$  dB: amplifier output is 10 dB below clipping.

**Clip Indicator:** Red LED, one per channel, illuminates when the channel's output signal reaches the

onset of audible clipping. The Clip Indicator also will illuminate during Thermal Level Control (TLC) limiting or when the input compressor/limiter is protecting the amplifier from input overload.

**Thermal Indicator:** Red LED, one per channel, illuminates when the channel has shut down, or is very near shutting down, due to thermal stress or overload.

**Fault Indicator:** Red LED, one per channel, flashes when the amplifier output channel has stopped operating.

**Data Indicator:** Yellow LED indicates control data activity (if the amplifier is equipped with an IQ-PIP2 module, and connected to a control system).

**Power Indicator:** Blue LED indicates amplifier has been turned on and AC power is available. The LED will flash when the AC line voltage is 15% above or 25% below the nominal rated value.

**Cooling Vents:** Front-to-rear forced airflow.

**Power Switch:** Push-on / push-off switch.

### Back Panel Controls and Connectors

**Power Cord Connector:** Standard 15 amp IEC inlet. Voltage is indicated above IEC inlet.

**Reset Switch:** Resets the circuit breaker that protects the power supply.

**Speaker Connectors:** One four-pole touch-proof terminal strip. Accepts up to 10 AWG terminal forks.

**Input Connectors:** Balanced 2-pin terminal block connector, one per channel, on the standard PIP2-BBY module.

**Channel Level Control:** One 21-position detented rotary attenuator per channel, ranging from minus infinity ( $-70$  dB) to 0 dB gain.

**Mode Switch:** Two-position switch is used to select the amplifier's mode of operation: Dual or Bridge-Mono.

**Highpass Filter:** One 3-position switch per channel selects between OFF, 35Hz and 70Hz 3rd-order filters.

**"Y" Input Switch:** When set to ON, this switch parallels the input signals of the two channels for use when the input signal is mono. Also can be used to daisy-chain the signal to another amplifier.

**Ventilation Grille:** Front-to-rear forced airflow.

### Options

PIP2 modules, including the PIP-Lite, PIP-USP3, and PIP-USP3/CN.

### Protection Systems

**Thermal Level Control (TLC):** If an amplifier channel starts to overheat, the TLC circuit will engage the input compressor. By compressing the input, the amplifier will not generate as much heat and will have a chance to cool down.

**Junction Temperature Simulation (JTS):** In the CTs 600/1200, if excess power is demanded, JTS circuitry limits the drive level of the output devices to a safe range, preventing damage.

**Fault:** The amplifier will light the Fault LED if the amplifier output stage stops operating.

**AC Under-/Over-Voltage Protection:** If the AC line voltage drops below 25% or rises above 15% of the nominal operating voltage of the amplifier, the amplifier's power supply turns off and the blue Power LED flashes. The amplifier will turn back on when the AC line voltage returns to safe operating levels.

**Circuit Breaker:** This breaker protects the amplifier from excessive AC current draw.

**DC Output Servo:** The output servo circuit protects your drivers by eliminating DC offset, even in the presence of very large asymmetrical signals.

**In-rush Limiting:** A soft-start circuit in the power supply minimizes the amplifier's current draw during power-on.

**Variable-speed Fan:** Two continuously variable speed fans direct the airflow through the amplifier for cooling.



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Specifications subject to change without prior notice. Latest information available at [www.crownaudio.com](http://www.crownaudio.com).

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### Crown's Three-Year, No-Fault, Fully Transferable Warranty

Crown offers a Three-Year, No-Fault, Fully Transferable Warranty for every new Crown amplifier—an unsurpassed industry standard. With this unprecedented No-Fault protection, your new Crown amplifier is warranted to meet or exceed original specifications for the first three years of ownership. During this time, if your amplifier fails, or does not perform to original specifications, it will be repaired or replaced at our expense. About the only things not covered by this warranty are those losses normally covered by insurance and those caused by intentional abuse. And the coverage is transferable, should you sell your amplifier.

See your authorized Crown dealer for full warranty disclosure and details. For customers outside of the USA, please contact your authorized Crown distributor for warranty information or call 574-294-8200.