

Crown DCI2x600N

Crown DriveCore Install 2600N Amplifier User Manual

Model: DCI2x600N

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Crown DriveCore Install 2600N Amplifier. Please read this manual thoroughly before installation and use to ensure optimal performance and to prevent damage to the unit or associated equipment.

The Crown DriveCore Install 2600N is a high-performance, 2-channel power amplifier designed for fixed installation applications, delivering 600 watts RMS per channel. It features DriveCore technology for efficient power delivery and network capabilities for remote monitoring and control.

2. SAFETY INFORMATION

WARNING: To prevent fire or electric shock, do not expose this appliance to rain or moisture. Do not remove the cover. No user-serviceable parts inside. Refer servicing to qualified personnel.

- Ensure proper grounding.
- Do not block ventilation openings.
- Use only specified power cords and accessories.
- Disconnect power before making any connections or performing maintenance.
- Avoid operating in extreme temperatures or high humidity.

3. SETUP AND INSTALLATION

3.1 Unpacking

Carefully remove the amplifier from its packaging. Inspect the unit for any signs of damage that may have occurred during transit. Retain the original packaging for future transport or storage.

3.2 Physical Installation

The DCI2x600N amplifier is designed for rack mounting. It occupies 2U of rack space. Ensure adequate ventilation around the unit. Do not install the amplifier directly above heat-generating equipment without proper

spacing.

- Mount the amplifier securely in a standard 19-inch equipment rack using appropriate rack screws.
- Allow at least 1U of empty space above and below the amplifier for optimal airflow, especially in enclosed racks.
- Ensure the front and rear ventilation grilles are unobstructed.

Dimensions: 14.3 x 19 x 3.5 inches (L x W x H)

Weight: 22 Pounds

3.3 Connections

Before making any connections, ensure the amplifier is powered off and disconnected from the mains supply.

3.3.1 Audio Input Connections

Connect your audio source (e.g., mixer, preamplifier) to the amplifier's input connectors. The DCI2x600N typically uses balanced XLR or Phoenix-style connectors for inputs. Refer to the rear panel for specific input types.

3.3.2 Audio Output Connections

Connect your loudspeakers to the amplifier's output terminals. Ensure correct polarity (+ to + and - to -) and that the speaker impedance matches the amplifier's specifications. The DCI2x600N supports various output configurations, including low impedance and 70V/100V constant voltage systems.

3.3.3 Network Connection (N-model)

For network control and monitoring, connect an Ethernet cable from your network switch or router to the amplifier's network port. This allows integration with Harman's HiQnet Audio Architect software.

3.3.4 Power Connection

Connect the supplied AC power cord to the amplifier's IEC inlet and then to a suitable mains power outlet. Ensure the power outlet provides the correct voltage and current rating for the amplifier.



Figure 1: Front panel of the Crown DriveCore Install 2600N Amplifier. This image displays the amplifier's front face, featuring the Crown logo on the left, a central display panel with LED indicators for Fault, Thermal, Clip, Signal, and Ready states for two channels, and the model number "2 600N DRIVECORE INSTALL" on the right. A green illuminated power button is also visible on the far right.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

- **Power On:** Press the power button located on the front panel. The power indicator will illuminate.

- **Power Off:** Press and hold the power button for a few seconds until the unit powers down.

4.2 Front Panel Indicators

The central display panel provides visual feedback on the amplifier's status:

- **FAULT:** Illuminates if a fault condition is detected (e.g., short circuit, DC offset).
- **THERMAL:** Indicates the amplifier is overheating. The unit may reduce output or shut down to protect itself.
- **CLIP:** Illuminates when the input signal is too high, causing distortion. Reduce input level to prevent clipping.
- **-20dB, -10dB, SIGNAL:** These LEDs indicate the input signal level for each channel. The SIGNAL LED illuminates when an audio signal is present.
- **READY:** Illuminates when the amplifier is powered on and ready to pass audio.
- **DATA:** (Next to Power button) Indicates network activity for the N-model.

4.3 Network Control and Monitoring

The DCI2x600N amplifier can be controlled and monitored remotely via a network connection using Harman's HiQnet Audio Architect software. This allows for configuration of input/output routing, DSP settings, monitoring of amplifier status, and more.

- Install HiQnet Audio Architect software on a connected computer.
- Discover the amplifier on the network.
- Access and configure amplifier parameters as needed.

5. MAINTENANCE

5.1 Cleaning

Periodically clean the amplifier's exterior with a soft, dry cloth. Do not use liquid cleaners or solvents. Ensure ventilation grilles are free from dust and debris to maintain proper airflow.

5.2 Ventilation

Regularly check that the amplifier's ventilation openings are not obstructed. Proper airflow is crucial for preventing overheating and ensuring long-term reliability.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cord disconnected; no mains power; amplifier fuse blown.	Check power cord connection; verify mains power; contact qualified service personnel for fuse replacement.
No sound output	Input signal missing; speaker cables disconnected; amplifier in fault mode.	Verify audio source and input connections; check speaker cable connections and polarity; check front panel FAULT indicator.

Problem	Possible Cause	Solution
Distorted sound	Input signal too high (clipping); incorrect speaker impedance; faulty speaker.	Reduce input level (check CLIP indicator); verify speaker impedance matches amplifier; test with different speakers.
THERMAL LED illuminated	Insufficient ventilation; excessive ambient temperature; prolonged high output.	Ensure proper airflow around the amplifier; reduce ambient temperature; lower output level.

7. SPECIFICATIONS

- **Model:** DCI2x600N
- **Channels:** 2
- **Power Output:** 600 W RMS per channel
- **Frequency Response:** 20 Hz - 20 kHz (+0/-1 dB)
- **Total Harmonic Distortion (THD):** < 0.5%
- **Signal-to-Noise Ratio:** > 100 dB (A-weighted)
- **Dimensions (L x W x H):** 14.3 x 19 x 3.5 inches
- **Weight:** 22 Pounds
- **Mounting Type:** Surface Mount (Rack Mountable)
- **Manufacturer:** Crown

8. WARRANTY AND SUPPORT



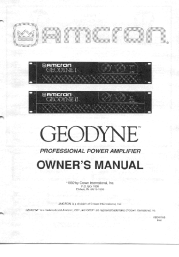
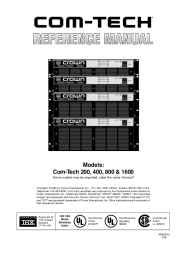
8.1 Warranty Information

This Crown product is covered by a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official Crown Audio website for detailed warranty terms and conditions specific to your region.

8.2 Technical Support

For technical assistance, troubleshooting, or service inquiries, please contact Crown Audio customer support. Contact information can typically be found on the official Crown Audio website or through your authorized dealer.

When contacting support, please have your amplifier's model number (DCI2x600N) and serial number readily available.

	<p>JBL DSi 2.0 Series Power Amplifiers Operation Manual</p> <p>This operation manual provides detailed instructions for installing, configuring, operating, and troubleshooting JBL DSi 2.0 Series Power Amplifiers, covering hardware setup, DSP settings, network configuration with HiQnet Audio Architect, and system specifications.</p>
	<p>Crown CMA-1 Car Amplifier Installation Guide and Specifications</p> <p>Comprehensive installation instructions, wiring diagrams, troubleshooting tips, and technical specifications for the Crown CMA-1 mobile amplifier. Learn how to properly install and connect your CMA-1 for optimal performance.</p>
	<p>Crown DCi Series Analog Input Models Operation Manual</p> <p>Comprehensive operation manual for Crown DCi Series Analog Input power amplifiers, detailing installation, setup, features, safety instructions, protection systems, troubleshooting, specifications, and performance data.</p>
	<p>Amcron GEODYNE I & II Professional Power Amplifier Owner's Manual</p> <p>Comprehensive owner's manual for the Amcron GEODYNE I and II professional stereo power amplifiers, covering installation, operation, features, and warranty information.</p>
	<p>Crown Com-Tech Series Power Amplifiers Reference Manual</p> <p>Detailed reference manual for Crown Com-Tech 200, 400, 800, and 1600 series commercial power amplifiers. Covers installation, operation, features like ODEP and PIP, technical specifications, and service information.</p>
	<p>Crown MA-3600VZ and MA-5002VZ Macro-Tech Series Amplifiers Datasheet</p> <p>Detailed datasheet for Crown MA-3600VZ and MA-5002VZ professional audio amplifiers, highlighting features, specifications, and performance characteristics of the Macro-Tech Series.</p>

