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Crown DCI 2-300

Crown DCI 2|300 Two-Channel 300W Analog Power Amplifier User Manual

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Crown DCI 2|300 Two-Channel 300W Analog Power Amplifier. The DCI Series amplifiers are designed for high-performance installed sound applications, offering flexibility and efficiency. Please read this manual thoroughly before using the amplifier to ensure optimal performance and safety.

2. Safety Information

WARNING: To reduce the risk of 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.

- Always connect the amplifier to a grounded power outlet.
- Ensure proper ventilation to prevent overheating. Do not block ventilation openings.
- Disconnect power before making any connections or performing maintenance.
- Do not operate the amplifier if the power cord is damaged.
- Avoid spilling liquids into the unit.

3. Product Overview

3.1 Key Features

- **TRUE RACK DENSITY:** 2U form factor for 2-/4-/8-channel configurations.
- **DIRECT DRIVE CONSTANT VOLTAGE:** Efficiently drives 70Vrms or 100Vrms speakers without a step-up transformer.
- **CHANNEL INDEPENDENT HI-Z/LOW-Z SELECTION:** Flexible impedance selection per channel.
- **BRIDGEABLE CHANNEL PAIRS:** Allows for higher power applications, including 100Vrms mode.
- **REMOTE ON/OFF INTERFACE:** Integration with control systems for power management.
- **EFFICIENT COOLING DESIGN:** Internal cooling fans maximize heat dissipation.

3.2 Rear Panel Layout

The rear panel of the DCI 2|300 amplifier provides all necessary connections and controls for power, audio input, and audio output.



Figure 1: Rear Panel of Crown DCI 2|300 Amplifier. This image displays the rear connections including the AC power inlet, cooling fan, AUX port, DIP switches for global settings, input attenuation knobs, balanced audio inputs, and screw terminal outputs for speakers.

- **AC Power Inlet:** Standard IEC connector for main power supply (100-240V~, 50/60Hz, 1000W).
- **Cooling Fan:** Ensures optimal operating temperature.
- **RESET Button:** For resetting the amplifier.
- **AUX Port:** For auxiliary connections, including Deep Sleep and Amp Status.
- **Global Settings DIP Switches:** Configures various amplifier parameters (e.g., input sensitivity, high-pass filters, bridging).
- **Input Attenuation:** Rotary controls for adjusting input signal levels for each channel.
- **Inputs:** Balanced audio input connectors for channels 1 and 2.
- **Outputs:** Screw terminal connectors for speaker outputs, supporting both low-impedance and constant voltage (70V/100V) systems.
- **Output Wiring Diagram:** Visual guide for connecting speakers in various configurations (Low-Z, Hi-Z, Bridged).

4. Setup

4.1 Rack Mounting

The DCI 2|300 is designed for standard 19-inch equipment racks. Secure the amplifier using appropriate rack screws, ensuring adequate space for ventilation around the unit.

4.2 Power Connection

Connect the supplied AC power cord to the AC Power Inlet on the rear panel and then to a grounded electrical outlet. Verify that the power supply voltage matches the amplifier's requirements (100-240V~, 50/60Hz).

4.3 Audio Input Connections

Connect your audio source (e.g., mixer, preamplifier) to the balanced input connectors on the rear panel. Use high-quality

shielded cables to minimize noise.

4.4 Speaker Output Connections

Connect your speakers to the screw terminal outputs. Refer to the output wiring diagram on the rear panel for correct polarity and configuration (Low-Z, Hi-Z 70V/100V, or Bridged mode). Ensure all connections are secure to prevent short circuits.

4.5 Global Settings Configuration

Adjust the Global Settings DIP switches on the rear panel according to your system requirements. These switches control parameters such as input sensitivity, high-pass filters, and bridging modes. Consult the detailed product specifications for specific DIP switch functions.

5. Operating Instructions

5.1 Powering On/Off

After all connections are made, turn on your audio source equipment first, then power on the DCI 2|300 amplifier. To power off, reverse the sequence: turn off the amplifier first, then the audio source.

5.2 Adjusting Input Levels

Use the Input Attenuation knobs on the rear panel to set the desired input level for each channel. Start with the knobs fully counter-clockwise (minimum attenuation) and gradually increase until the desired volume is achieved without distortion.

5.3 Monitoring Performance

Observe the indicator lights on the front panel (if present, typical for amplifiers) for signal presence, clipping, and protection status. If a protection indicator illuminates, refer to the Troubleshooting section.

6. Maintenance

6.1 Cleaning

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

6.2 Ventilation

Ensure that the amplifier's cooling fan and vents are not obstructed. Proper ventilation is crucial for preventing overheating and ensuring long-term reliability.

7. Troubleshooting

Problem	Possible Cause	Solution
No Power	Power cord disconnected; no power from outlet; amplifier fuse blown.	Check power cord connection; verify outlet power; contact service for fuse replacement.
No Sound Output	Input cables disconnected; speaker cables disconnected or incorrect wiring; input attenuation too low; source device off.	Check all cable connections; verify speaker wiring; increase input attenuation; ensure source device is on and playing.

Problem	Possible Cause	Solution
Distorted Sound	Input signal too high (clipping); speaker impedance mismatch; faulty speaker.	Reduce input signal level; verify speaker impedance matches amplifier output; test with different speakers.
Overheating	Blocked ventilation; excessive ambient temperature; prolonged high output.	Ensure clear airflow around the unit; operate in a cooler environment; reduce output level.

8. Specifications

- **Model:** DCI 2-300
- **Output Power:** 300 Watts per channel
- **Number of Channels:** 2
- **Voltage:** 100-240V~, 50/60Hz (230 Volts nominal)
- **Item Dimensions (L x W x H):** 3.94 x 15.75 x 1.97 inches
- **Item Weight:** Approximately 4000 Grams (8.8 lbs)
- **Mounting Type:** Rack Mount (Surface Mount also possible)
- **Manufacturer:** Crown Audio
- **UPC:** 871015007052
- **ASIN:** B00V5AYL7W

9. Warranty and Support

This Crown DCI 2|300 amplifier is covered by the manufacturer's standard warranty. For detailed warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Crown Audio website. For technical support, service, or parts, please contact your authorized Crown Audio dealer or distributor.

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