

# DCi Series – Analog Input Models

## Operation Manual



**DCi 8I600**

**DCi 8I300**

**DCi 4I1250**

**DCi 4I600**

**DCi 4I300**

**DCi 2I1250**

**DCi 2I600**

**DCi 2I300**

**Obtaining Other Language Versions:** To obtain information in another language about the use of this product, please contact your local Crown Distributor. If you need assistance locating your local distributor, please visit [www.crownaudio.com](http://www.crownaudio.com).

This manual does not include all of the details of design, production, or variations of the equipment. Nor does it cover every possible situation which may arise during installation, operation or maintenance.

The information provided in this manual was deemed accurate as of the publication date. However, updates to this information may have occurred. To obtain the latest version of this manual, please visit the Crown website at [www.crownaudio.com](http://www.crownaudio.com).

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**Some models may be exported under the name Amcron®**

5040449-B - 05/22

# Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
9. Do not defeat the safety purpose of the Grounding-type plug. A polarized plug has two blades with one wider than the other and should not be used with this product. A grounding-type plug has two blades and a third grounding prong and is the proper plug for this product. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



11. Only use attachments/accessories specified by the manufacturer.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Use the mains plug to disconnect the apparatus from the mains.
16. WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.



17. DO NOT EXPOSE THIS EQUIPMENT TO DRIPPING OR SPLASHING AND ENSURE THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, ARE PLACED ON THE EQUIPMENT.
18. THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY OPERABLE.



TO PREVENT ELECTRIC SHOCK DO NOT REMOVE TOP COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



TO COMPLETELY DISCONNECT THIS EQUIPMENT FROM THE AC MAINS, DISCONNECT THE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE. THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY OPERABLE.

## WATCH FOR THESE SYMBOLS:



The lightning bolt triangle is used to alert the user to the risk of electric shock.



The exclamation point triangle is used to alert the user to important operating or maintenance instructions.



## IMPORTANT



DriveCore Install Series amplifiers require Class 2 output wiring.

## MAGNETIC FIELD

CAUTION! Do not locate sensitive high-gain equipment such as preamplifiers or tape decks directly above or below the unit. Because this amplifier has a high power density, it has a strong magnetic field which can induce hum into unshielded devices that are located nearby. The field is strongest just above and below the unit.

If an equipment rack is used, we recommend locating the amplifier(s) in the bottom of the rack and the preamplifier or other sensitive equipment at the top.

## FCC COMPLIANCE NOTICE

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

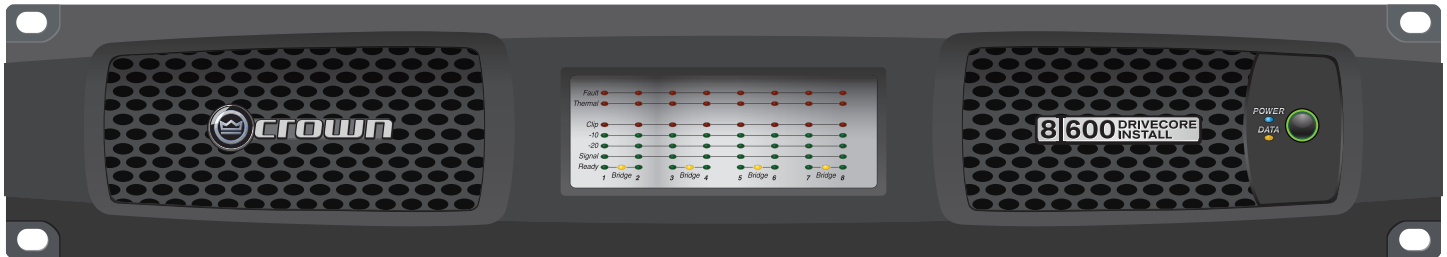
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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# Welcome



Thank you for purchasing a Crown DriveCore Install Series installation amplifier, one in a complete line of high-performance amplifiers based on exclusive DriveCore technology. DCi Series amplifiers are designed, engineered and manufactured to the industry's highest quality standards, and provide system integrators with the advanced features and flexibility required for challenging 21st century installed sound applications. Versatile, compact and highly energy-efficient, DCi Series amplifiers continue the unbroken Crown tradition of leadership in professional and commercial power amplifier technology.

## Features

- Exclusive DriveCore Technology – The patented DriveCore integrated circuit combines hundreds of discrete circuits into one chip for better performance, lower power consumption and improved reliability.
- Power Saving Modes – Power consumption in sleep mode is less than 1W.
- Auto Standby – Amplifier goes into Sleep mode after 30 minutes of no input signal.
- Remote Power Off – Sleep mode activated via AUX port.
- 70 V / 100 V Direct Drive – Each channel individually selectable for low-Z or high-Z operation.
- 100 V Direct Drive Capability – Higher voltage allows more speakers per output and reduced wiring costs.
- TLC Protection – Protects amplifier from excessive heat and maintains operation by intelligently applying gain reduction when necessary.
- Advanced Protection Circuits – Amplifier and loads are protected against shorted outputs, DC, mismatched loads, overheating, over- or under-voltage, and high frequency overload.
- Complies with Green Edge by Harman – Environmentally friendly practices in design, manufacturing, and packaging complement energy-efficient operation.
- PFC Power Supply – the next generation power supply design guarantees minimum rated power delivered for drastically lower current draw.

## How to Use This Manual

This manual provides the necessary information to safely and correctly setup and operate your Crown product. It does not cover every aspect of installation, setup, or operation that might occur under every condition. For additional information, please contact technical support, your system installer, or retailer.

We strongly recommend you read all instructions, warnings, and cautions contained in this manual.

# Installation

## Unpacking

Unpack your amplifier and inspect for any damage that may have occurred during transit. If damage is found, notify the shipping company immediately. Only you can initiate a claim for shipping damage, though Crown will be happy to help as needed. If the product arrived showing signs of damage, save the shipping carton for the shipper's inspection.

We also recommend that you save all packing materials for use if you ever need to transport the unit. Never ship the unit without the factory carton and packing materials.

## Additional Materials

FOR INSTALLATION, YOU WILL NEED (not supplied):

- Input wiring cables
- Output wiring cables
- Flathead screwdriver
- Phillips screwdriver
- Rack for mounting amplifier (or a stable surface for stacking)



**WARNING:** Before you start to set up your amplifier, read and observe the Important Safety Instructions found at the beginning of this manual.

## Install the Amplifier

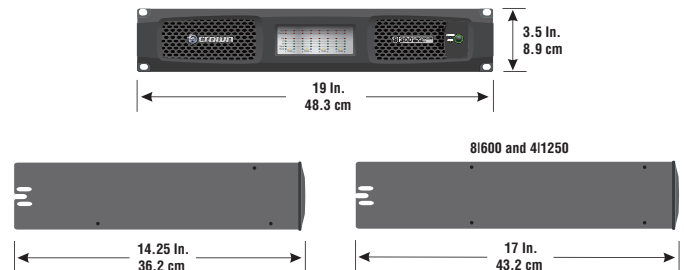


**CAUTION:** Before you begin, make sure your amplifier is disconnected from the power source and that all level controls (see Page 13) are set to INF.

All DCi Series amplifiers are 3.5 in. (8.9 cm) high and 19 in. (48.3 cm) wide. All are 14.25 in. (36.2 cm) deep except the DCi81600 and 411250 which is 17 in. (43.2 cm) deep. (See Figure 1)

Mount the unit in a standard 19-inch (48.3 cm) equipment rack (EIA RS-310B). You can also place a single amp on a solid, stable surface or stack multiple amps.

NOTE: Amplifiers should be supported at both the front and rear of the rack.

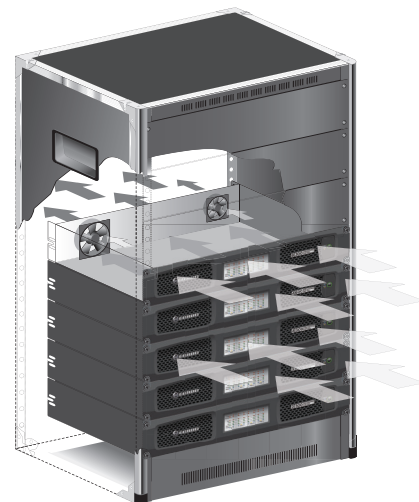


## Ensure Correct Cooling

When using an equipment rack, mount units directly on top of each other. Close any open spaces in the rack with blank panels. (Open spaces will reduce cooling efficiency.) DO NOT block front or rear air vents.

The rack should be a minimum of two inches (5.1 cm) away from the amplifier, and the back of the rack should be a minimum of four inches (10.2 cm) from the amplifier back panel.

Air flow is front to back as illustrated in Figure 2.



# Set-up and System Configuration

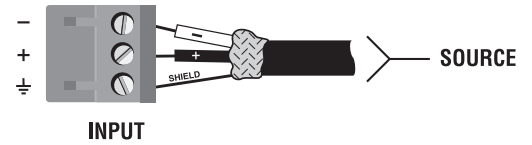
## Wire Input Connectors

Crown recommends using pre-built or professionally wired balanced line (two-conductor plus shield). Balanced wiring provides better rejection of unwanted noise and hum; however, unbalanced line may also be used.

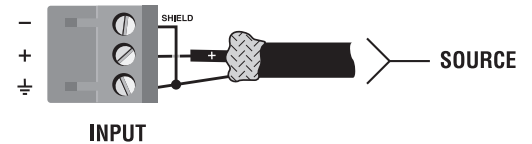
Use 6-pin plug-in cable ends at the amp input connectors. A male connector is supplied for each input of your model of amplifier.

Figure 3 shows connector pin assignments for balanced wiring and Figure 4 shows connector pin assignments for unbalanced wiring. Note that for bridged operation, only the connectors for odd-numbered channels (1,3,5,7) for each bridged pair need be wired. See Page 8 and 10.

### BALANCED LINE



### UNBALANCED LINE



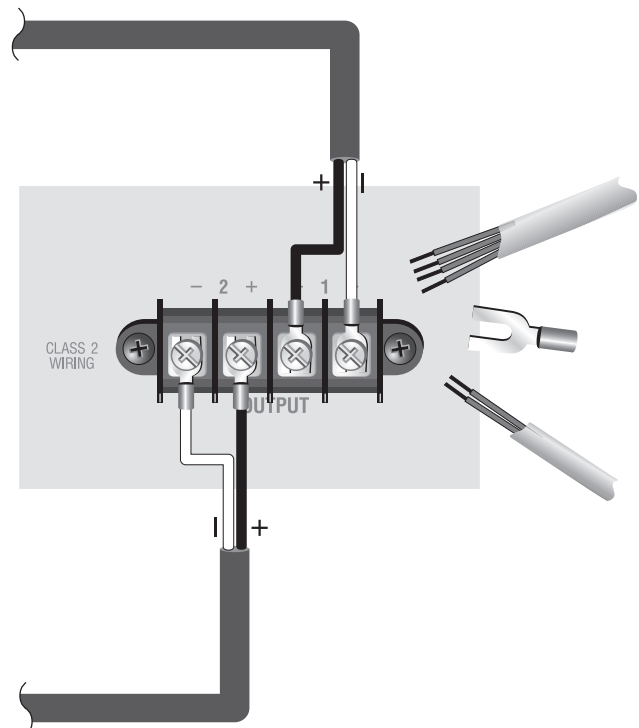
## Wire Output Connectors

Crown has designed an output cover that does not need to be removed to connect the output wiring.

Crown recommends using the included spade connectors and two- or four-conductor, heavy gauge speaker wire. You may use terminal forks up to 6mm<sup>2</sup> (10 AWG) or bare wire for your output connectors (see Figure 5). For best results, Crown recommends the use of terminal forks. For bare wire, it is highly recommended that output wiring is tinned. To reduce strain on input and output wiring, Crown recommends the use of horizontal lacer bars. To prevent the possibility of short-circuits, wrap or otherwise insulate exposed loudspeaker cable connectors.

For low-impedance loads, select the appropriate size of wire based on the distance from amplifier to speaker.

| Distance              | Wire Size                   |
|-----------------------|-----------------------------|
| Up to 7.6m (25 ft)    | 1.5mm <sup>2</sup> (16 AWG) |
| 7.9–12.2m (26–40 ft)  | 2.5mm <sup>2</sup> (14 AWG) |
| 12.5–18.3m (41–60 ft) | 4mm <sup>2</sup> (12 AWG)   |
| > 18.3m (60 ft)       | 6mm <sup>2</sup> (10 AWG)   |



**CAUTION:** Never use shielded cable for output wiring.



**CAUTION:** Never connect the speaker return to the chassis of the amplifier, or damage to the amplifier may result.



**NOTE:** Custom wiring should only be performed by qualified personnel. Class 2 output wiring is required.

# Set-up and System Configuration

## Connect Loudspeakers and Configure for Loudspeaker Load

### Determine load impedances and power requirements

Before making any connections, carefully check and review the total impedance for loudspeaker systems to be connected to each amplifier output. If multiple loudspeakers are connected to one output (in series, parallel or series-parallel) for Lo-Z operation, be certain the total system impedance is within allowed specification for the output. When multiple loudspeakers are connected to one output for Hi-Z operation, be certain total tapped power is below the rated power output for the channel.

**Note: Illustrations and some text references are for channel pair 1 - 2 only. Connections and settings are identical for channels 3 – 4 on four-channel models and for channels 5 – 6 and 7 – 8 on eight-channel models. Each channel pair may be configured independently on multichannel models.**

### Dual Mode Low-Z (8, 4 or 2 Ohm)

Typical input and output wiring, along with Attenuator and Mode DIP Switch settings are shown in Figure 6. Make sure DIP Switches are in the default OFF (down) position.

**INPUTS:** Connect the input with wiring in place for each channel. If the same signal is to drive both outputs of a channel pair (“mono”), the signal must be split externally and applied to both inputs.

**OUTPUTS:** Maintain proper polarity (+/-) on output connectors. Connect the Channel 1 speaker’s positive (+) lead to amplifier Channel 1 positive terminal; repeat for negative (-). Repeat Channel 2 wiring as for Channel 1, and for any subsequent channel pairs on multichannel models. Refer to Page 6 for output connector terminal assignments.

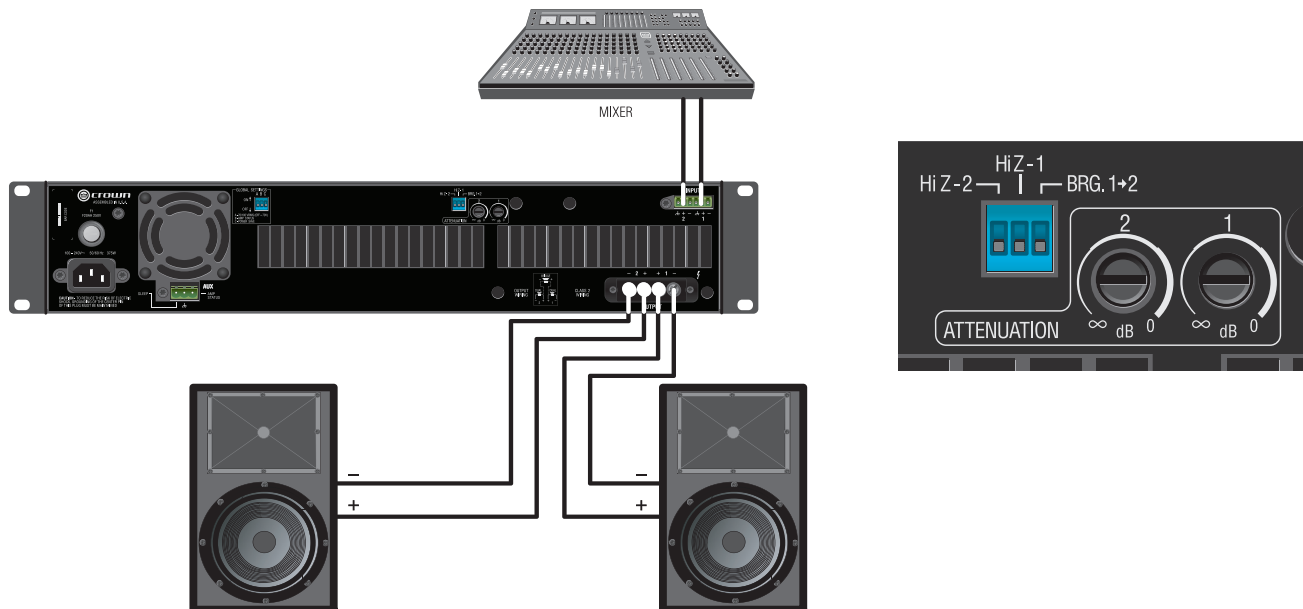


Figure 6 System Wiring Dual Mode

**Always route the input and output wires in separate bundles.**

# Set-up and System Configuration

## Bridge Mode (16, 8, or 4 Ohm)

Typical input and output wiring, along with Attenuator and Mode DIP Switch settings are shown in Figure 7. Make sure the “Hi-Z” selector switches are in the OFF (down) position and the Bridge (BRG) switch is in the ON (up) position. NOTE: Only the Hi-Z selector switches assigned to odd-numbered channels (1,3,5,7) are active in Bridge mode; switches assigned to even-numbered channels (2,4,6,8) are disabled.

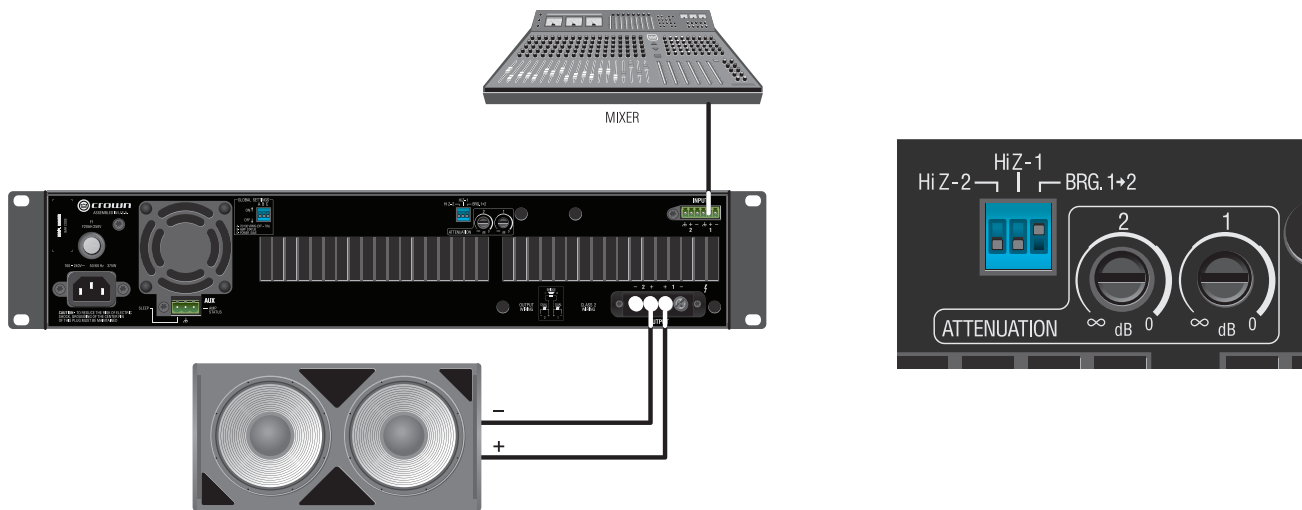


Figure 7 System Wiring Bridge Mode

**Always route the input and output wires in separate bundles.**



# Set-up and System Configuration

## Dual Mode Hi-Z (70V/100V)

Typical input and output wiring, along with Attenuator and Mode DIP Switch settings are shown in Figure 8. Make sure the “Hi-Z” selector switches are in the ON (up) position and the Bridge (BRG) switch is in the OFF (down) position. A 35Hz high pass filter is selected automatically when the amplifier channel is in Hi-Z or Bridged Hi-Z mode. The filter can be changed to 70Hz, please contact your local Crown service center for detailed instruction for this modification. Remember, DCi amplifiers allow each channels Hi-Z or Low-Z mode of operation to be selected independently, while 70V/100V selection is global.

**NOTE: For 70V systems, be sure that Global DIP Switch A is in the OFF position. For 100V systems, be sure that Global DIP Switch A is in the ON position.**

**INPUTS:** Connect the input with wiring in place for each channel. If the same signal is to drive both outputs of a channel pair (“mono”), the signal must be split externally and applied to both inputs.

**OUTPUTS:** Connect the outputs as shown to a Hi-Z (70V / 100V) loudspeaker system.

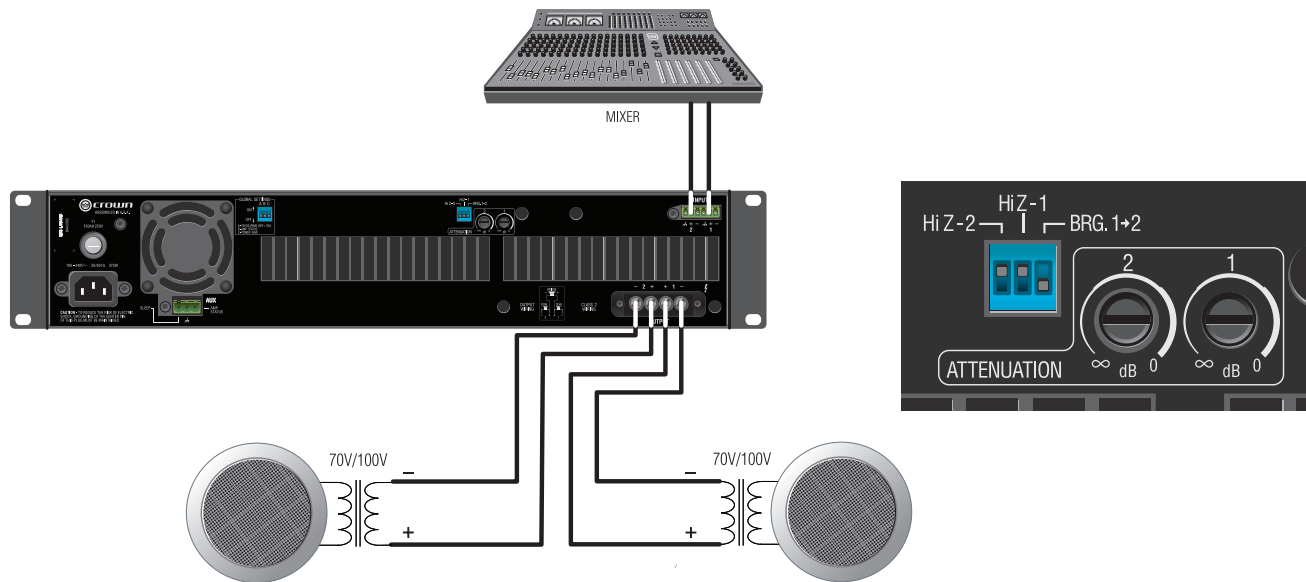


Figure 8 System Wiring for 70V/100V Operation

**Always route the input and output wires in separate bundles.**

# Set-up and System Configuration

## Bridge Mode Hi-Z (140V/200V)

Typical input and output wiring, along with Attenuator and Mode DIP Switch settings are shown in Figure 9. Make sure the “Hi-Z” selector switch for the connected input channel is in the ON (up) position and the Bridge (BRG) switch for the channel pair also is in the ON (up) position. A 35Hz high pass filter is selected automatically when the amplifier channel is in Hi-Z or Bridged Hi-Z mode. The filter can be changed to 70Hz, please contact your local Crown service center for detailed instruction for this modification. NOTE: Only the Hi-Z selector switches assigned to odd-numbered channels (1,3,5,7) are active in Bridge mode; switches assigned to even-numbered channels (2,4,6,8) are disabled.

INPUTS: Connect the input to the odd-numbered channels (1,3,5,7) only. Even-numbered inputs are disabled when the Bridge DIP Switch is ON.

OUTPUTS: Connect the speaker across the positive terminals of each channel pair. Do not use the negative terminals of the channel pair when the pair is being operated in Bridge-Mono mode.

**NOTE: For global selection of 70V (140V bridged) or 100V (200V bridged) operation, refer to Page 13.**

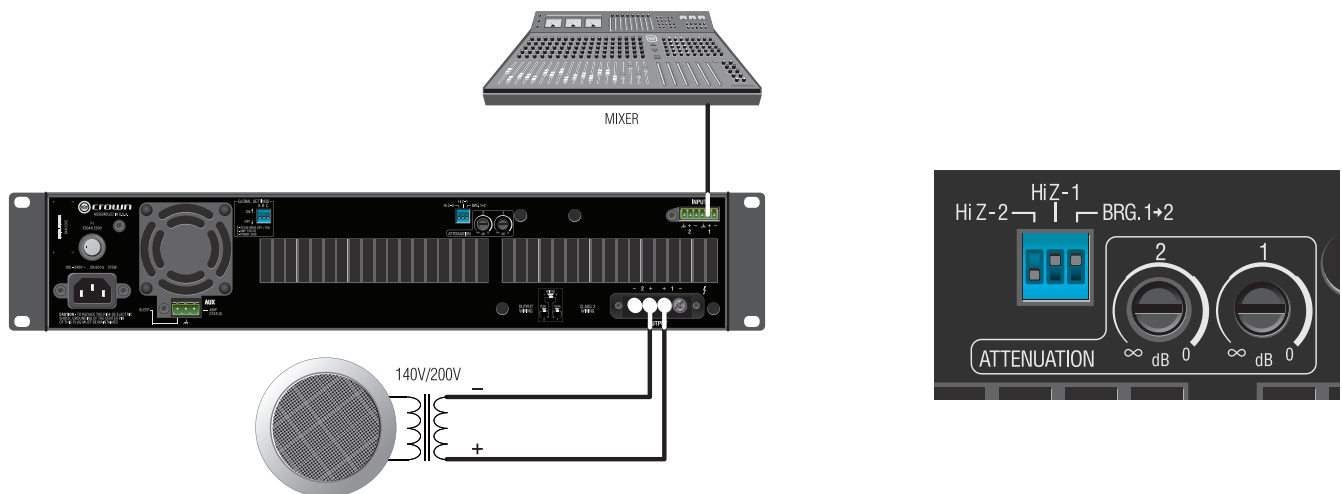


Figure 9 System Wiring for 70V/100V Operation

**Always route the input and output wires in separate bundles.**

# Set-up and System Configuration

## Connect to AC Mains

Connect your amplifier to the AC mains power source (power outlet) using the supplied AC power cord set. First, connect the IEC end of the cord set to the IEC connector on the amplifier; then, plug the other end of the cord set to the AC mains.



**WARNING: The third prong of this connector (ground) is an important safety feature. Do not attempt to disable this ground connection by using an adapter or other methods.**

Make certain the AC mains voltage and current ratings are sufficient to deliver full power to all amplifiers. If the AC line voltage varies out of an acceptable range, 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.

DriveCore Install Amplifiers utilize a universal power supply. The AC voltage requirements are 100VAC - 240VAC, 50/60Hz (+/-10%). If the voltage exceeds these requirements, then the Power LED will flash and the amplifier will stop passing audio until the voltage is within the requirements.

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## Startup Procedure

When first turning on your amplifier:

1. Turn down the level of your audio source.
2. Turn down the level controls of the amplifier to INF Page 13.
3. Turn on the "Power" switch. The Power indicator should light.
4. Turn up the level of your audio source to an optimum level. Ensure that at no point in the signal chain is the signal being clipped in any way.
5. Turn up the level controls on the amplifier to the desired loudness or power level.

IMPORTANT: Before making any wiring or installation changes, turn off the amplifier and disconnect the power cord.

---

## Precautions

Your amplifier is protected from internal and external faults, but you should still take the following precautions for optimum performance and safety:

1. Configure the amplifier for proper operation, including input and output wiring hookup. Improper wiring can result in serious operating difficulties. For information on wiring and configuration, please consult Page 6 of this manual.

2. Use care when making connections, selecting signal sources and controlling the output level. The load you save may be your own!



3. Do not short the ground lead of an output cable to the input signal ground. This may form a ground loop and cause oscillations.

**4. Never connect the output to a power supply, battery or power main. Electrical shock may result.**

5. Tampering with the circuitry or making unauthorized circuit changes may be hazardous and invalidate all agency listings.

6. Do not operate the amplifier with the RED Clip LEDs constantly flashing.

7. Do not overdrive the mixer, which will cause clipped signal to be sent to the amplifier. Such signals will be reproduced with extreme accuracy, and loudspeaker damage may result.

8. Do not operate the amplifier with less than the rated load impedance. Due to the amplifier's output protection, such a configuration may result in premature clipping and speaker damage.

Remember: Crown is not liable for damage that results from overdriving other system components.

# Front Panel Features

**Indicators:**

**Fault Indicator (red):** Flashes when the amplifier output channel has stopped operating. (See Page 15 Troubleshooting.)

**Thermal Indicator (red):** Illuminates when the channel reaches 80 degrees Celsius, indicating the onset of protection compression.

**Clip Indicator (red):** Illuminates when any of the following conditions are present: Onset of audible clipping, clipped signal detected at input, clipped signal detected at output, engagement of TLC protection circuit.

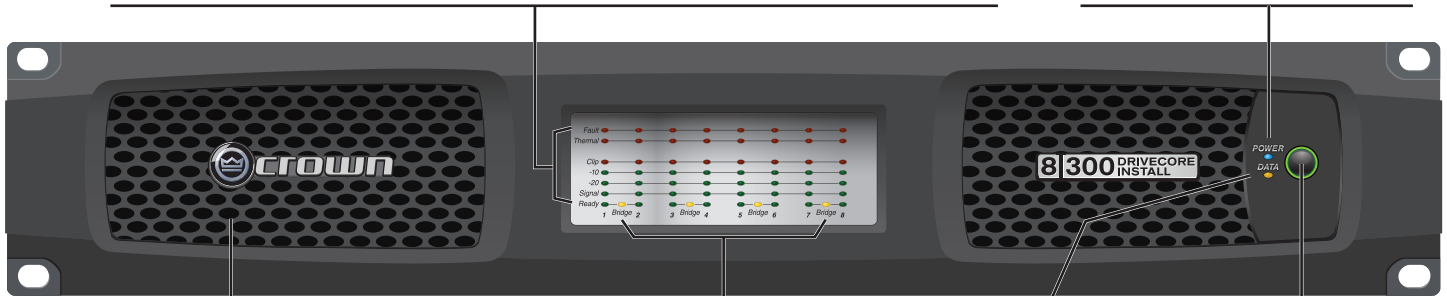
**Level and Signal Indicators (green):** Three LEDs indicate signal presence and level as follows: -10 = 10 dB below rated output -20 = 20 dB below rated output Signal = -40dBu input level

**Ready Indicator (green):** When this indicator is activated, the amplifier is ready to pass audio.

**Power Indicator (blue)**

Illuminates when the amplifier is ON and acceptable AC line voltage is present.  
Blinks when AC line voltage is outside  $\pm 10\%$  range.

Flashes for 4 seconds if Power button pressed when amplifier is in sleep mode. (page 15)



**Cooling Vent Grille**

Provides cooling air flow. Do not block or cover these vents.

**Bridge Mode Indicator (yellow)**

Illuminates when Bridge Mode is activated for the channel pair, only odd number channel will be active

**Data Indicator (yellow)**

Illuminates when data present on the network. (Not used in analog input versions.)

**Power Button**

Power Ring Indicator (Green) - Illuminates when the amplifier is plugged into a wall outlet with acceptable power.

Note: Eight channel model shown. Indications per channel pair are identical for 2 and 4 channel models.

# Back Panel Features

**Power Fuse**

F20AH 250V, replace with same type fuse. Littelfuse 314 Series. DCi81600 & 411250 incorporate the use of a resettable breaker instead of fuse.

**Global Setting DIP Switches**

Settings for 70/100 VRMS (Hi-Z operation) operation mode, AMP STATUS and POWER SAVE. These DIP switches affect all output channels. (Refer to Page 13)

**Channel Pair DIP Switches**

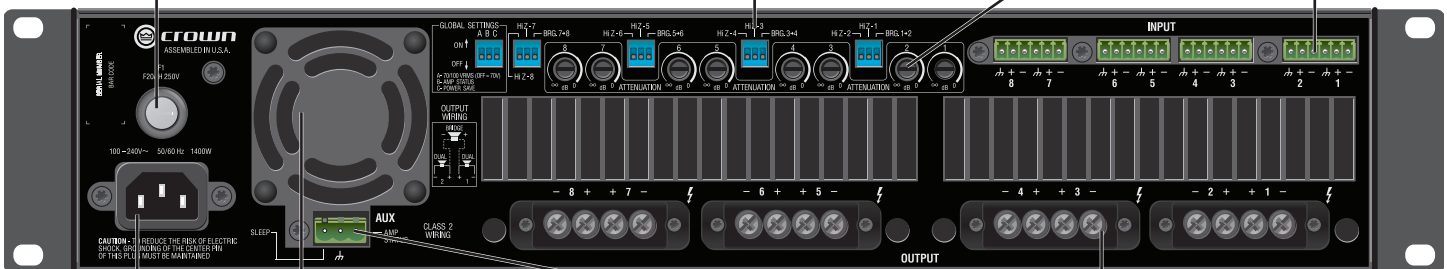
One block of three DIP Switches for each channel pair. Allows selection of Lo-Z or Hi-Z operation per channel and bridging of designated channel pairs. (Refer to Page 13)

**Input Attenuators**

One 21-position detented potentiometer per channel. Logarithmic audio taper. Attenuation range -95 dB to 0 dB

**Input Connectors**

One 6-pin plug-in connector per input. High impedance balanced. (Refer to Page 6)



**AC Power Inlet:**

Standard IEC type 320 inlet for detachable connector 100 - 240 V~. The DCi81600 and 411250 utilize a 20A IEC connector. All other models use a 15A connector.

**Cooling Fan Outlet**

Outlets for cooling air flow. Do not block or cover these outlets.

**Auxiliary Connector**

3-pin plug-in type connector, Enables SLEEP mode and monitoring of AMP STATUS unless the amplifier is in any of these conditions: OFF, SLEEP, or FAULT. (see Page 13)

**Output Connectors**

One four-pole touch-proof terminal strip per channel pair. Accepts up to 6mm<sup>2</sup> (10 AWG) wire or terminal forks.

Note: This image reflects the DCi 81300 back panel

# Global Settings

## 70/100 VRMS (switch A)

This switch selects either 70 or 100 VRMS operation for all outputs currently selected for Hi-Z mode. (See the section below, Hi-Z.) Default position is 70 V (OFF). In 70 V and 100 V mode, a voltage limiter circuit is enabled. NOTE: When bridged Hi-Z mode is implemented, selected voltages are doubled to 140V or 200V.

## Amplifier Status (switch B)

The Amplifier Status works with life safety or supervisory monitoring and control systems where notification of an amplifier fault is necessary. The Amplifier Status produces a signal (“heartbeat”) when the amplifier is operating within standard working parameters. If the amplifier enters a fault or thermal condition, the Amplifier Status signal will terminate. This feature is always on and available when the amplifier is ready to deliver audio in selected mode through the AMP STATUS line on the AUX port.

The Amplifier Status signal is selectable:

- ON – the microcontroller will send a 2 Hz pulse to the “AMP STATUS” AUX port line.
- OFF – the microcontroller will send a logic high level to the “AMP STATUS” AUX port line.

The voltage output of the Aux Port is 5VDC at 0.9 milliamps. This TTL or similar signal can then be connected to an interface to indicate the amplifier status to a supervisory control system.

Amp status can be used in a variety of life safety applications

## Power Save (switch C)

The Power Save switch enables the Auto-Standby function. In OFF position, the Auto Standby feature is disabled; amplifier power on/off is controlled by the front panel switch or the AUX port ground closure.

In the ON position, Auto Standby is enabled. If the amplifier input does not see signal for 30 minutes, the amplifier will power down to consume less than 1W of power. When -40dBu of input signal is applied, then the amplifier will power up for activation. The power up sequence will take approximately 4 - 5 seconds.

# Per Channel Settings

Note: The following text and illustrations refer to one channel pair, channels 1 and 2. Settings and functions are identical for other channels pairs (3/4, 5/6, 7/8) in multichannel models.

## Hi-Z

Each channel of the channel pair is individually selectable for Lo-Z or Hi-Z operation. When Hi-Z operation is selected (ON, up) a 35Hz high pass filter is selected automatically. The filter can be changed to 70Hz. Contact your local Crown service center for detailed instruction for this change. When a channel pair is configured for bridged Hi-Z mode, only switches assigned to the odd-numbered channels (1,3,5,7) are active; switches for the even-numbered channels (2,4,6,8) are disabled.

## Channel Attenuators

Each channel is supplied with a logarithmic 21-position detented input attenuator. Use a flat-blade screwdriver to set input level. Attenuation is from -95 dB (full counter-clockwise) to 0 dB (full clockwise).

| Position            | 0 | 1   | 2 | 3 | 4 | 5   | 6  | 7    | 8  | 9    | 10   |
|---------------------|---|-----|---|---|---|-----|----|------|----|------|------|
| Typical Attenuation | 0 | 0.1 | 3 | 6 | 8 | 9.5 | 11 | 12.5 | 14 | 15.5 | 16.5 |

| Position            | 11   | 12 | 13   | 14   | 15   | 16   | 17 | 18 | 19 | 20 |
|---------------------|------|----|------|------|------|------|----|----|----|----|
| Typical Attenuation | 17.5 | 19 | 20.5 | 22.5 | 24.5 | 27.5 | 32 | 42 | 90 | 95 |

# Protection System

## Thermal Indicator

If the amplifier becomes too hot for safe operation, the channel that is generating too much heat will be shut down until the temperature drops below the thermal limit. The front-panel thermal indicator will illuminate at 80 degrees Celsius, indicating the onset of compression affecting the audio signal. The amplifier will continue to run in this state until either the temperature is reduced to a safe operating range, or if the temperature continues to rise, the channel will shut off to protect itself above 98 degrees Celsius.

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## Fault

The amplifier will enter a Fault state if the amplifier senses an unsafe condition. This protection is for both internal and external faults. It is critical to check all wiring to and from the amplifier to ensure the fault is not caused by external conditions. If wiring is verified as correct and the fault condition persists, see Page 28 for servicing information.

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## Auto Insertion High-Pass Filters

A 35 Hz high-pass filter is inserted automatically when a channel is selected for Hi-Z operation. The filter can be changed to a 70Hz high pass filter.

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## AC Under/Over Voltage Protection

If the AC line voltage drops below 10% or rises above 10% 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.

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## Fuse

A fuse (F1) located near the IEC power inlet protects the amplifier from excessive AC current draw. The fuse is field replaceable. Replace with same type fuse; Littelfuse 314 Series F20AH 250V. The 81600 and 411250 utilize a resettable breaker instead of a fuse.

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## Fan-cooled Chassis

DCi Series amplifiers are cooled by quiet, variable speed fans. The fans will pull air from the front of the amplifier to the rear of the amplifier.

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## Universal Switching Power Supply

The DCi Series incorporates a new switching power supply designed for extremely high efficiency and high output power. The supply includes Power Factor Correction (PFC), a Series Resonant Converter (SRC) and accepts AC supply voltages from 100 V~ to 240 V~. Microprocessor controlled diagnostic and control capabilities both optimize performance, and enhance long-term reliability.

# Troubleshooting

|         |   |         |   |      |   |     |   |     |   |        |   |       |   |        |       |   |      |   |  |   |
|---------|---|---------|---|------|---|-----|---|-----|---|--------|---|-------|---|--------|-------|---|------|---|--|---|
| Fault   | ● | Thermal | ● | Clip | ● | -10 | ● | -20 | ● | Signal | ● | Ready | ● | Bridge | Power | ● | Data | ● |  | <p><b>CONDITION: Power indicator is off. Mains indicator is on.</b></p> <p>POSSIBLE REASON</p> <ul style="list-style-type: none"> <li>The amplifier's Power switch is off.</li> </ul> |
| Thermal | ● |         |   |      |   |     |   |     |   |        |   |       |   |        |       |   |      |   |  |   |

|     |   |                 |
|-----|---|-----------------|
| Key | ● | Off             |
|     | ◐ | Flashing        |
|     | ○ | Off/Flashing/On |
|     | ☀ | Lit             |

"Off/Flashing/On" above means that the LED can be off, or flashing, or on.

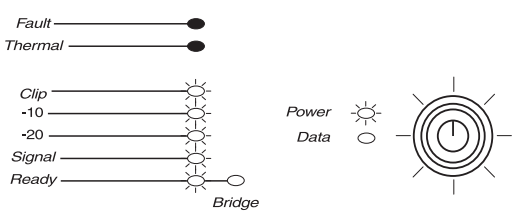
|         |   |         |   |      |   |     |   |     |   |        |   |       |   |        |       |   |      |   |  |  |
|---------|---|---------|---|------|---|-----|---|-----|---|--------|---|-------|---|--------|-------|---|------|---|--|--|
| Fault   | ● | Thermal | ● | Clip | ● | -10 | ● | -20 | ● | Signal | ● | Ready | ● | Bridge | Power | ● | Data | ● |  | <p><b>CONDITION: Power indicator is off. Mains indicator is off.</b></p> <p>POSSIBLE REASON</p> <ul style="list-style-type: none"> <li>The power supply fuse has tripped.</li> <li>The amplifier has lost AC Power.</li> <li>The amplifier is not plugged in to the power receptacle.</li> </ul> |
| Thermal | ● |         |   |      |   |     |   |     |   |        |   |       |   |        |       |   |      |   |  |  |

|         |   |         |   |      |   |     |   |     |   |        |   |       |   |        |       |   |      |   |  |   |
|---------|---|---------|---|------|---|-----|---|-----|---|--------|---|-------|---|--------|-------|---|------|---|--|---|
| Fault   | ● | Thermal | ● | Clip | ● | -10 | ● | -20 | ● | Signal | ● | Ready | ● | Bridge | Power | ◐ | Data | ● |  | <p><b>CONDITION: Power indicator is flashing.</b></p> <p>POSSIBLE REASON:</p> <ul style="list-style-type: none"> <li>The AC line voltage has dropped below 10% or has risen above 10% of the nominal line voltage of the power supply.</li> <li>When the Amp is in Sleep Mode as set by the AUX Port, the amplifier will not power up until the ground closure on the AUX Port is released. When the power button is pushed in this condition, the Power Indicator will flash for 2 – 3 seconds.</li> </ul> |
| Thermal | ● |         |   |      |   |     |   |     |   |        |   |       |   |        |       |   |      |   |  |   |

|         |   |         |   |      |   |     |   |     |   |        |   |       |   |        |       |   |      |   |  |   |
|---------|---|---------|---|------|---|-----|---|-----|---|--------|---|-------|---|--------|-------|---|------|---|--|---|
| Fault   | ☀ | Thermal | ☀ | Clip | ● | -10 | ● | -20 | ● | Signal | ● | Ready | ● | Bridge | Power | ☀ | Data | ○ |  | <p><b>CONDITION: Thermal indicator is on.</b></p> <p>POSSIBLE REASON:</p> <ul style="list-style-type: none"> <li>The amplifier is becoming too hot for safe operation. Allow amplifier to cool. Check for loads less than 2 ohms, and for excessive input levels. Check for proper ventilation and proper mode-switch setting.</li> </ul> |
| Thermal | ☀ |         |   |      |   |     |   |     |   |        |   |       |   |        |       |   |      |   |  |   |

|         |   |         |   |      |   |     |   |     |   |        |   |       |   |        |       |   |      |   |  |  |
|---------|---|---------|---|------|---|-----|---|-----|---|--------|---|-------|---|--------|-------|---|------|---|--|--|
| Fault   | ◐ | Thermal | ● | Clip | ● | -10 | ● | -20 | ● | Signal | ● | Ready | ● | Bridge | Power | ☀ | Data | ● |  | <p><b>CONDITION: Fault indicator is flashing.</b></p> <p>POSSIBLE REASON:</p> <ul style="list-style-type: none"> <li>There are a number of conditions that result in the Fault indicator flashing: temperature above 98 Degrees Celsius, DC/LF protection is engaged, HF detect, output short circuit detected. These conditions should all be checked and attempted to be resolved before the amp is shipped back for service.</li> </ul> |
| Thermal | ● |         |   |      |   |     |   |     |   |        |   |       |   |        |       |   |      |   |  |  |

# Troubleshooting



**LED Status:**  
 Fault: Off  
 Thermal: Off  
 Clip: On  
 -10: On  
 -20: On  
 Signal: On  
 Ready: On  
 Bridge: On  
 Power: On  
 Data: Off

**CONDITION: Distorted sound.**

**POSSIBLE REASON:**

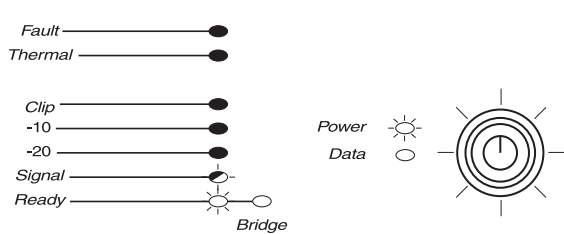
- Load is wired incorrectly or Stereo/Bridge mode switch is set incorrectly. Check both.
- Input is overloaded by a signal level that is too high. Turn down your amplifier level controls, or turn down the input signal, until the clip light goes out.

**Note:** If the signal sounds distorted even though the Clip LED is off, the input signal may be distorted before it reaches the amplifier input. Check gain staging and output levels of the mixer or preamp.

**Key**

- Off
- ◐ Flashing
- Off/Flashing/On
- ☀ Lit

“Off/Flashing/On” above means that the LED can be off, or flashing, or on.



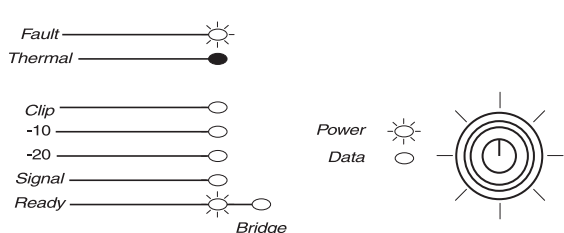
**LED Status:**  
 Fault: Off  
 Thermal: Off  
 Clip: Off  
 -10: Off  
 -20: Off  
 Signal: Flashing  
 Ready: On  
 Bridge: On  
 Power: On  
 Data: Off

**CONDITION: No sound, even though the amp has power.** Power LED is on without flashing and the amp is receiving an input signal. Signal indicator is flashing.

**POSSIBLE REASON:**

- Speakers not connected.
- Open circuit due to speaker failure.

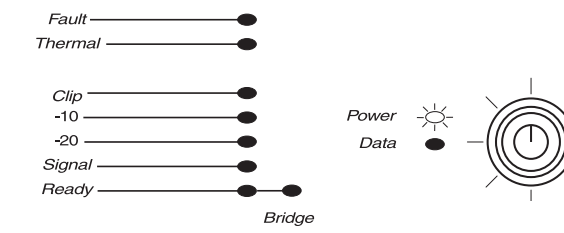
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**LED Status:**  
 Fault: Flashing  
 Thermal: Off  
 Clip: Off  
 -10: Off  
 -20: Off  
 Signal: Off  
 Ready: On  
 Bridge: On  
 Power: On  
 Data: Off

• Based on the front panel LEDs, determine which channel has a short. Remove the associated input connector to ensure that no voltage will be present on the output. Remove the shorted load (and possibly attached cables) and have it checked by a qualified technician. If the shorted condition remains after the load is removed, the unit should be sent into a qualified service center.

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**LED Status:**  
 Fault: Off  
 Thermal: Off  
 Clip: Off  
 -10: Off  
 -20: Off  
 Signal: Off  
 Ready: Off  
 Bridge: On  
 Power: On  
 Data: Off

• Ready LED is off. Channel has been set to Sleep mode via the Aux port or Power Save mode.



# Troubleshooting

**CONDITION: No input signal.** Signal indicator is not flashing even though audio is applied, and the channel is ready.

**POSSIBLE REASON:**

- Input signal level is very low.

**Key**

- Off
- ◐ Flashing
- Off/Flashing/On
- ☀ Lit

“Off/Flashing/On” above means that the LED can be off, or flashing, or on.

**CONDITION: Bridge LED is lit.**

**POSSIBLE REASON:**

- Amplifier is in bridge-mono mode.

# DCi Specifications

## Dual-Mode - All Channels Driven

| DCi Model | Channels | 2 Ohms | 4 Ohms | 8 Ohms | 16 Ohms | 70Vrms | 100Vrms |
|-----------|----------|--------|--------|--------|---------|--------|---------|
| 2 300     | 2        | 150W   | 300W   | 300W   | 150W    | 300W   | 300W    |
| 2 600     | 2        | 300W   | 600W   | 600W   | 300W    | 600W   | 600W    |
| 4 300     | 4        | 150W   | 300W   | 300W   | 150W    | 300W   | 300W    |
| 4 600     | 4        | 300W   | 600W   | 600W   | 300W    | 600W   | 600W    |
| 8 300     | 8        | 150W   | 300W   | 300W   | 150W    | 300W   | 300W    |
| 8 600     | 8        | 300W   | 600W   | 600W   | 300W    | 600W   | 600W    |
| 2 1250    | 2        | 1250W  | 1250W  | 1250W  | 625W    | 1250W  | 1250W   |
| 4 1250    | 4        | 1250W  | 1250W  | 1250W  | 625W    | 1250W  | 1250W   |

Minimum Guaranteed Power (20 Hz - 20 kHz)

## Bridge Mono Mode - All Channels Driven

| DCi Model | 4 Ohm | 8 Ohms | 16 Ohm | 140Vrms | 200Vrms |
|-----------|-------|--------|--------|---------|---------|
| 2 300     | 300W  | 600W   | 600W   | 600W    | 600W    |
| 2 600     | 600W  | 1200W  | 1200W  | 1200W   | 1200W   |
| 4 300     | 300W  | 600W   | 600W   | 600W    | 600W    |
| 4 600     | 600W  | 1200W  | 300W   | 1200W   | 1200W   |
| 8 300     | 300W  | 600W   | 600W   | 600W    | 600W    |
| 8 600     | 600W  | 1200W  | 1200W  | 1200W   | 1200W   |
| 2 1250    | 2500W | 2500W  | 2500W  | 2500W   | 2500W   |
| 4 1250    | 2500W | 2500W  | 2500W  | 2500W   | 2500W   |

Minimum Guaranteed Power (20 Hz - 20 kHz)

# DCi Specifications

## Input Sensitivity

| DCi Model | 8 Ohm | 70V  | 100V |
|-----------|-------|------|------|
| 2 300     | 1.0V  | 1.4V | 2.0V |
| 2 600     | 1.4V  | 1.4V | 2.0V |
| 4 300     | 1.0V  | 1.4V | 2.0V |
| 4 600     | 1.4V  | 1.4V | 2.0V |
| 8 300     | 1.0V  | 1.4V | 2.0V |
| 8 600     | 1.4V  | 1.4V | 2.0V |
| 2 1250    | 2.0V  | 1.4V | 2.0V |
| 4 1250    | 2.0V  | 1.4V | 2.0V |

## Dimensions

| DCi Model | Width            | Height           | Depth               |
|-----------|------------------|------------------|---------------------|
| 2 300     | 19 in. (48.3 cm) | 3.5 in. (8.9 cm) | 14.25 in. (36.2 cm) |
| 2 600     | 19 in. (48.3 cm) | 3.5 in. (8.9 cm) | 14.25 in. (36.2 cm) |
| 4 300     | 19 in. (48.3 cm) | 3.5 in. (8.9 cm) | 14.25 in. (36.2 cm) |
| 4 600     | 19 in. (48.3 cm) | 3.5 in. (8.9 cm) | 14.25 in. (36.2 cm) |
| 8 300     | 19 in. (48.3 cm) | 3.5 in. (8.9 cm) | 14.25 in. (36.2 cm) |
| 8 600     | 19 in. (48.3 cm) | 3.5 in. (8.9 cm) | 17 in. (43.2 cm)    |
| 2 1250    | 19 in. (48.3 cm) | 3.5 in. (8.9 cm) | 14.25 in. (36.2 cm) |
| 4 1250    | 19 in. (48.3 cm) | 3.5 in. (8.9 cm) | 17 in. (43.2 cm)    |

# DCi Specifications

## Performance Specifications

|   | 2 300   | 2 600                | 4 300                | 4 600                | 8 300                 | 8 600               | 2 1250               | 4 1250              |
|---|---|----------------------|----------------------|----------------------|-----------------------|---------------------|----------------------|---------------------|
| Voltage Gain<br>(at maximum level setting)<br>4/8 Ohm, 70V and 100V<br>Operation          |   |                      |                      | 34dB                 |                       |                     |                      |                     |
| Frequency Response<br>(8 Ohms, 20 Hz - 20 kHz)  |   |                      |                      | ±0.25dB              |                       |                     |                      |                     |
| Signal to Noise Ratio<br>(ref. rated power, (8 Ohms, 20<br>Hz - 20 kHz)                   |   |                      |                      | >108 dB              |                       |                     |                      |                     |
| Total Harmonic Distortion (at<br>full rated power, from<br>20 Hz - 20 kHz)                |   |                      |                      | 0.35%                |                       |                     |                      |                     |
| Intermodulation Distortion<br>(60Hz and 7 kHz at 4:1, from<br>- 30dB to full rated Power) |   |                      |                      | ≤0.35%               |                       |                     |                      |                     |
| Damping Factor<br>(20 Hz to 100 Hz)   |   |                      |                      | >1000                |                       |                     |                      |                     |
| Crosstalk<br>(below rated power,<br>20 Hz to 1 kHz)                                       |   |                      |                      | >80 dB               |                       |                     |                      |                     |
| Common Mode Rejection<br>(20 Hz to 1 kHz, typical)  |   |                      |                      | >70 dB               |                       |                     |                      |                     |
| DC Output Offset<br>(with inputs shorted)   |   |                      |                      | ±10mV                |                       |                     |                      |                     |
| Input Impedance<br>(Nominally balanced,<br>nominally unbalanced)                          |   |                      |                      | 10 kOhms, 5 kOhms    |                       |                     |                      |                     |
| Maximum Input Level<br>Before Compression   |   |                      |                      | +20dBu               |                       |                     |                      |                     |
| Maximum Input Level Before<br>Clipping  |   |                      |                      | +26dBu               |                       |                     |                      |                     |
| Required AC Mains (±10%)  | 100V - 240V~ 50/60Hz  |                      |                      |                      |                       |                     |                      |                     |
| Cooling   | Continuously variable speed forced air, front-to-back airflow |                      |                      |                      |                       |                     |                      |                     |
| Load Impedance<br>Stereo/Dual Mode  | 2 - 16 Ohms; 70Vrms and 100Vrms                               |                      |                      |                      |                       |                     |                      |                     |
| Load Impedance<br>Bridge Mono   | 4 - 16 Ohms; 140Vrms and 200Vrms                              |                      |                      |                      |                       |                     |                      |                     |
| Maximum Fan Noise<br>(re dB SPL @ 1M)   | 45  | 45                   | 45                   | 45                   | 47                    | 47                  | 47                   | 47                  |
| Weight  | 8.53kg<br>(18.8 lbs)  | 8.53kg<br>(18.8 lbs) | 9.12kg<br>(20.1 lbs) | 9.12kg<br>(20.1 lbs) | 10.66kg<br>(23.5 lbs) | 13.60kg<br>(30 lbs) | 9.12kg<br>(20.1 lbs) | 13.60kg<br>(30 lbs) |
| IEC Power Connector   | 15A IEC   | 15A IEC              | 15A IEC              | 15A IEC              | 15A IEC               | 20A IEC             | 15A IEC              | 20A IEC             |

# AC Power Draw and Thermal Dissipation

## AC Power Draw and Thermal Dissipation:

Pink noise 12dB crest factor, bandwidth limited 22Hz to 22kHz.

Typical line impedance used.

Data based on all channels driven.

| DCi 2 300 - Dual  |               |                       |                          |     |         |                       |                          |     |         |
|---|---------------|-----------------------|--------------------------|-----|---------|-----------------------|--------------------------|-----|---------|
|   |               | 120 VAC / 60 Hz       |                          |     |         | 230 VAC / 50 Hz       |                          |     |         |
| Condition   | Load          | "Line current (amps)" | Power Dissipated as Heat |     |         | "Line current (amps)" | Power Dissipated as Heat |     |         |
|   |               |                       | watts                    | BTU | kcal/hr |                       | watts                    | BTU | kcal/hr |
| At Idle Awake   | N/A           | 0.6                   | 70                       | 238 | 60      | 0.4                   | 70                       | 238 | 60      |
| 1/8 Power Pink Noise<br>Typical of program material just at clip    | 2Ω            | 1.0                   | 77                       | 262 | 66      | 0.6                   | 79                       | 269 | 68      |
|   | 4Ω            | 1.4                   | 84                       | 287 | 72      | 0.8                   | 84                       | 288 | 73      |
|   | 8Ω            | 1.4                   | 79                       | 271 | 68      | 0.8                   | 81                       | 277 | 70      |
|   | 70V (16.33Ω)  | 1.3                   | 79                       | 268 | 68      | 0.8                   | 80                       | 273 | 69      |
|   | 100V (33.33Ω) | 1.4                   | 81                       | 275 | 69      | 0.8                   | 81                       | 277 | 70      |
| 1/3 Power Pink Noise<br>Typical of program material at extreme clip | 2Ω            | 1.8                   | 99                       | 338 | 85      | 1.0                   | 96                       | 329 | 83      |
|   | 4Ω            | 2.9                   | 118                      | 403 | 102     | 1.5                   | 111                      | 380 | 96      |
|   | 8Ω            | 2.6                   | 102                      | 347 | 87      | 1.4                   | 96                       | 327 | 83      |
|   | 70V (16.33Ω)  | 2.8                   | 104                      | 356 | 90      | 1.3                   | 93                       | 317 | 80      |
|   | 100V (33.33Ω) | 2.6                   | 105                      | 358 | 90      | 1.4                   | 98                       | 336 | 85      |

| DCi 2 300 - Bridge  |               |                       |                          |     |         |                       |                          |     |         |
|---|---------------|-----------------------|--------------------------|-----|---------|-----------------------|--------------------------|-----|---------|
|   |               | 120 VAC / 60 Hz       |                          |     |         | 230 VAC / 50 Hz       |                          |     |         |
| Condition   | Load          | "Line current (amps)" | Power Dissipated as Heat |     |         | "Line current (amps)" | Power Dissipated as Heat |     |         |
|   |               |                       | watts                    | BTU | kcal/hr |                       | watts                    | BTU | kcal/hr |
| At Idle Awake   | N/A           | 0.6                   | 70                       | 239 | 60      | 0.4                   | 70                       | 240 | 60      |
| 1/8 Power Pink Noise<br>Typical of program material just at clip    | 4Ω            | 1.0                   | 80                       | 273 | 69      | 0.6                   | 83                       | 283 | 71      |
|   | 8Ω            | 1.4                   | 86                       | 294 | 74      | 0.8                   | 88                       | 300 | 76      |
|   | 16Ω           | 1.4                   | 80                       | 274 | 69      | 0.8                   | 84                       | 287 | 72      |
|   | 140V (32.67Ω) | 1.3                   | 78                       | 265 | 67      | 0.8                   | 80                       | 273 | 69      |
|   | 200V (66.67Ω) | 1.3                   | 78                       | 267 | 67      | 0.8                   | 80                       | 274 | 69      |
| 1/3 Power Pink Noise<br>Typical of program material at extreme clip | 4Ω            | 1.8                   | 107                      | 364 | 92      | 1.0                   | 102                      | 348 | 88      |
|   | 8Ω            | 2.8                   | 126                      | 430 | 108     | 1.5                   | 117                      | 400 | 101     |
|   | 16Ω           | 2.7                   | 108                      | 367 | 93      | 1.4                   | 101                      | 345 | 87      |
|   | 140V (32.67Ω) | 2.6                   | 101                      | 345 | 87      | 1.4                   | 95                       | 323 | 81      |
|   | 200V (66.67Ω) | 2.6                   | 99                       | 338 | 85      | 1.4                   | 94                       | 321 | 81      |

# AC Power Draw and Thermal Dissipation

## AC Power Draw and Thermal Dissipation:

Pink noise 12dB crest factor, bandwidth limited 22Hz to 22kHz.

Typical line impedance used.

Data based on all channels driven.

| DCi 2 600 - Dual   |               |                       |                          |     |         |                       |                          |     |         |
|--|---------------|-----------------------|--------------------------|-----|---------|-----------------------|--------------------------|-----|---------|
|  |               | 120 VAC / 60 Hz       |                          |     |         | 230 VAC / 50 Hz       |                          |     |         |
| Condition  | Load          | "Line current (amps)" | Power Dissipated as Heat |     |         | "Line current (amps)" | Power Dissipated as Heat |     |         |
|  |               |                       | watts                    | BTU | kcal/hr |                       | watts                    | BTU | kcal/hr |
| At Idle Awake  | N/A           | 0.6                   | 72                       | 246 | 62      | 0.4                   | 70                       | 240 | 60      |
| <b>1/8 Power Pink Noise</b><br>Typical of program material just at clip    | 2Ω            | 1.5                   | 93                       | 318 | 80      | 0.8                   | 91                       | 310 | 78      |
|  | 4Ω            | 2.2                   | 106                      | 362 | 91      | 1.2                   | 99                       | 339 | 85      |
|  | 8Ω            | 2.1                   | 95                       | 324 | 82      | 1.1                   | 90                       | 306 | 77      |
|  | 70V (8Ω)      | 2.1                   | 94                       | 320 | 81      | 1.1                   | 89                       | 304 | 77      |
|  | 100V (16.67Ω) | 2.1                   | 93                       | 318 | 80      | 1.1                   | 87                       | 297 | 75      |
| <b>1/3 Power Pink Noise</b><br>Typical of program material at extreme clip | 2Ω            | 2.9                   | 133                      | 454 | 114     | 1.5                   | 126                      | 430 | 108     |
|  | 4Ω            | 4.7                   | 156                      | 533 | 134     | 2.4                   | 147                      | 502 | 126     |
|  | 8Ω            | 4.5                   | 131                      | 448 | 113     | 2.4                   | 125                      | 427 | 107     |
|  | 70V (8Ω)      | 4.5                   | 132                      | 450 | 113     | 2.4                   | 123                      | 421 | 106     |
|  | 100V (16.67Ω) | 4.5                   | 127                      | 435 | 110     | 2.4                   | 121                      | 413 | 104     |

| DCi 2 600 - Bridge   |               |                       |                          |     |         |                       |                          |     |         |
|--|---------------|-----------------------|--------------------------|-----|---------|-----------------------|--------------------------|-----|---------|
|  |               | 120 VAC / 60 Hz       |                          |     |         | 230 VAC / 50 Hz       |                          |     |         |
| Condition  | Load          | "Line current (amps)" | Power Dissipated as Heat |     |         | "Line current (amps)" | Power Dissipated as Heat |     |         |
|  |               |                       | watts                    | BTU | kcal/hr |                       | watts                    | BTU | kcal/hr |
| At Idle Awake  | N/A           | 0.6                   | 70                       | 239 | 60      | 0.4                   | 73                       | 249 | 63      |
| <b>1/8 Power Pink Noise</b><br>Typical of program material just at clip    | 4Ω            | 1.5                   | 93                       | 318 | 80      | 0.8                   | 97                       | 329 | 83      |
|  | 8Ω            | 2.2                   | 109                      | 372 | 94      | 1.2                   | 104                      | 355 | 89      |
|  | 16Ω           | 2.1                   | 101                      | 345 | 87      | 1.1                   | 94                       | 320 | 81      |
|  | 140V (16Ω)    | 2.1                   | 98                       | 334 | 84      | 1.1                   | 92                       | 312 | 79      |
|  | 200V (33.33Ω) | 2.1                   | 92                       | 316 | 80      | 1.1                   | 90                       | 308 | 78      |
| <b>1/3 Power Pink Noise</b><br>Typical of program material at extreme clip | 4Ω            | 2.9                   | 143                      | 486 | 123     | 1.5                   | 138                      | 472 | 119     |
|  | 8Ω            | 4.8                   | 174                      | 592 | 149     | 2.6                   | 171                      | 585 | 147     |
|  | 16Ω           | 4.5                   | 143                      | 487 | 123     | 2.4                   | 138                      | 470 | 118     |
|  | 140V (16Ω)    | 4.5                   | 143                      | 488 | 123     | 2.4                   | 135                      | 462 | 116     |
|  | 200V (33.33Ω) | 4.5                   | 130                      | 442 | 111     | 2.3                   | 125                      | 425 | 107     |

# AC Power Draw and Thermal Dissipation

## AC Power Draw and Thermal Dissipation:

Pink noise 12dB crest factor, bandwidth limited 22Hz to 22kHz.

Typical line impedance used.

Data based on all channels driven.

| DCi 4 300 - Dual   |               |                       |                          |     |         |                       |                          |     |         |
|--|---------------|-----------------------|--------------------------|-----|---------|-----------------------|--------------------------|-----|---------|
|  |               | 120 VAC / 60 Hz       |                          |     |         | 230 VAC / 50 Hz       |                          |     |         |
| Condition  | Load          | "Line current (amps)" | Power Dissipated as Heat |     |         | "Line current (amps)" | Power Dissipated as Heat |     |         |
|  |               |                       | watts                    | BTU | kcal/hr |                       | watts                    | BTU | kcal/hr |
| At Idle Awake  | N/A           | 1.0                   | 118                      | 401 | 101     | 0.6                   | 119                      | 408 | 103     |
| <b>1/8 Power Pink Noise</b><br>Typical of program material just at clip    | 2Ω            | 1.9                   | 141                      | 480 | 121     | 1.0                   | 136                      | 465 | 117     |
|  | 4Ω            | 2.6                   | 156                      | 532 | 134     | 1.4                   | 149                      | 507 | 128     |
|  | 8Ω            | 2.6                   | 149                      | 509 | 128     | 1.4                   | 142                      | 484 | 122     |
|  | 70V (16.33Ω)  | 2.5                   | 143                      | 489 | 123     | 1.3                   | 139                      | 475 | 120     |
|  | 100V (33.33Ω) | 2.5                   | 149                      | 507 | 128     | 1.3                   | 142                      | 485 | 122     |
| <b>1/3 Power Pink Noise</b><br>Typical of program material at extreme clip | 2Ω            | 3.4                   | 194                      | 661 | 167     | 1.8                   | 184                      | 629 | 159     |
|  | 4Ω            | 5.5                   | 219                      | 749 | 189     | 2.9                   | 211                      | 719 | 181     |
|  | 8Ω            | 5.0                   | 191                      | 653 | 164     | 2.6                   | 181                      | 618 | 156     |
|  | 70V (16.33Ω)  | 4.9                   | 183                      | 624 | 157     | 2.6                   | 177                      | 604 | 152     |
|  | 100V (33.33Ω) | 5.0                   | 197                      | 673 | 170     | 2.6                   | 191                      | 652 | 164     |

| DCi 4 300 - Bridge   |               |                       |                          |     |         |                       |                          |     |         |
|--|---------------|-----------------------|--------------------------|-----|---------|-----------------------|--------------------------|-----|---------|
|  |               | 120 VAC / 60 Hz       |                          |     |         | 230 VAC / 50 Hz       |                          |     |         |
| Condition  | Load          | "Line current (amps)" | Power Dissipated as Heat |     |         | "Line current (amps)" | Power Dissipated as Heat |     |         |
|  |               |                       | watts                    | BTU | kcal/hr |                       | watts                    | BTU | kcal/hr |
| At Idle Awake  | N/A           | 1.0                   | 119                      | 405 | 102     | 0.6                   | 121                      | 414 | 104     |
| <b>1/8 Power Pink Noise</b><br>Typical of program material just at clip    | 4Ω            | 1.9                   | 145                      | 493 | 124     | 1.0                   | 139                      | 475 | 120     |
|  | 8Ω            | 2.8                   | 166                      | 566 | 143     | 1.4                   | 153                      | 523 | 132     |
|  | 16Ω           | 2.7                   | 153                      | 523 | 132     | 1.4                   | 145                      | 495 | 125     |
|  | 140V (32.67Ω) | 2.5                   | 142                      | 486 | 122     | 1.3                   | 137                      | 467 | 118     |
|  | 200V (66.67Ω) | 2.6                   | 146                      | 500 | 126     | 1.3                   | 141                      | 480 | 121     |
| <b>1/3 Power Pink Noise</b><br>Typical of program material at extreme clip | 4Ω            | 3.5                   | 199                      | 681 | 172     | 1.8                   | 190                      | 649 | 164     |
|  | 8Ω            | 5.3                   | 225                      | 768 | 193     | 2.8                   | 222                      | 759 | 191     |
|  | 16Ω           | 5.1                   | 201                      | 685 | 173     | 2.7                   | 190                      | 647 | 163     |
|  | 140V (32.67Ω) | 4.9                   | 179                      | 612 | 154     | 2.5                   | 170                      | 582 | 147     |
|  | 200V (66.67Ω) | 5.0                   | 185                      | 633 | 159     | 2.5                   | 174                      | 594 | 150     |

# AC Power Draw and Thermal Dissipation

## AC Power Draw and Thermal Dissipation:

Pink noise 12dB crest factor, bandwidth limited 22Hz to 22kHz.

Typical line impedance used.

Data based on all channels driven.

| DCi 4 600 - Dual   |               |                       |                          |      |         |                       |                          |     |         |
|--|---------------|-----------------------|--------------------------|------|---------|-----------------------|--------------------------|-----|---------|
|  |               | 120 VAC / 60 Hz       |                          |      |         | 230 VAC / 50 Hz       |                          |     |         |
| Condition  | Load          | "Line current (amps)" | Power Dissipated as Heat |      |         | "Line current (amps)" | Power Dissipated as Heat |     |         |
|  |               |                       | watts                    | BTU  | kcal/hr |                       | watts                    | BTU | kcal/hr |
| At Idle Awake  | N/A           | 1.0                   | 118                      | 402  | 101     | 0.6                   | 120                      | 409 | 103     |
| <b>1/8 Power Pink Noise</b><br>Typical of program material just at clip    | 2Ω            | 3.0                   | 182                      | 622  | 157     | 1.5                   | 168                      | 575 | 145     |
|  | 4Ω            | 4.3                   | 200                      | 682  | 172     | 2.2                   | 191                      | 652 | 164     |
|  | 8Ω            | 4.0                   | 174                      | 595  | 150     | 2.2                   | 168                      | 573 | 144     |
|  | 70V (8Ω)      | 4.0                   | 175                      | 596  | 150     | 2.1                   | 168                      | 573 | 144     |
|  | 100V (16.67Ω) | 4.0                   | 169                      | 577  | 146     | 2.1                   | 162                      | 554 | 140     |
| <b>1/3 Power Pink Noise</b><br>Typical of program material at extreme clip | 2Ω            | 5.6                   | 264                      | 901  | 227     | 2.9                   | 249                      | 848 | 214     |
|  | 4Ω            | 9.4                   | 316                      | 1079 | 272     | 4.8                   | 287                      | 980 | 247     |
|  | 8Ω            | 8.9                   | 266                      | 907  | 228     | 4.6                   | 240                      | 820 | 207     |
|  | 70V (8Ω)      | 8.8                   | 268                      | 915  | 231     | 4.6                   | 240                      | 820 | 207     |
|  | 100V (16.67Ω) | 8.8                   | 256                      | 872  | 220     | 4.6                   | 231                      | 789 | 199     |

| DCi 4 600 - Bridge   |               |                       |                          |      |         |                       |                          |      |         |
|--|---------------|-----------------------|--------------------------|------|---------|-----------------------|--------------------------|------|---------|
|  |               | 120 VAC / 60 Hz       |                          |      |         | 230 VAC / 50 Hz       |                          |      |         |
| Condition  | Load          | "Line current (amps)" | Power Dissipated as Heat |      |         | "Line current (amps)" | Power Dissipated as Heat |      |         |
|  |               |                       | watts                    | BTU  | kcal/hr |                       | watts                    | BTU  | kcal/hr |
| At Idle Awake  | N/A           | 1.0                   | 117                      | 400  | 101     | 0.6                   | 118                      | 404  | 102     |
| <b>1/8 Power Pink Noise</b><br>Typical of program material just at clip    | 4Ω            | 2.9                   | 185                      | 631  | 159     | 1.5                   | 173                      | 592  | 149     |
|  | 8Ω            | 4.4                   | 207                      | 707  | 178     | 2.2                   | 196                      | 670  | 169     |
|  | 16Ω           | 4.0                   | 183                      | 625  | 158     | 2.1                   | 175                      | 596  | 150     |
|  | 140V (16Ω)    | 3.9                   | 179                      | 609  | 154     | 2.1                   | 173                      | 591  | 149     |
|  | 200V (33.33Ω) | 3.9                   | 167                      | 571  | 144     | 2.1                   | 163                      | 556  | 140     |
| <b>1/3 Power Pink Noise</b><br>Typical of program material at extreme clip | 4Ω            | 5.7                   | 278                      | 948  | 239     | 3.0                   | 269                      | 918  | 231     |
|  | 8Ω            | 9.6                   | 344                      | 1174 | 296     | 4.9                   | 322                      | 1099 | 277     |
|  | 16Ω           | 9.0                   | 292                      | 995  | 251     | 4.6                   | 235                      | 802  | 202     |
|  | 140V (16Ω)    | 9.0                   | 289                      | 988  | 249     | 4.6                   | 259                      | 884  | 223     |
|  | 200V (33.33Ω) | 8.8                   | 260                      | 886  | 223     | 4.5                   | 231                      | 790  | 199     |

# AC Power Draw and Thermal Dissipation

## AC Power Draw and Thermal Dissipation:

Pink noise 12dB crest factor, bandwidth limited 22Hz to 22kHz.

Typical line impedance used.

Data based on all channels driven.

| DCi 8 300 - Dual  |               |                       |                          |      |         |                       |                          |      |         |
|---|---------------|-----------------------|--------------------------|------|---------|-----------------------|--------------------------|------|---------|
|   |               | 120 VAC / 60 Hz       |                          |      |         | 230 VAC / 50 Hz       |                          |      |         |
| Condition   | Load          | "Line current (amps)" | Power Dissipated as Heat |      |         | "Line current (amps)" | Power Dissipated as Heat |      |         |
|   |               |                       | watts                    | BTU  | kcal/hr |                       | watts                    | BTU  | kcal/hr |
| At Idle Awake   | N/A           | 1.8                   | 214                      | 731  | 184     | 1.0                   | 216                      | 738  | 186     |
| 1/8 Power Pink Noise<br>Typical of program material just at clip    | 2Ω            | 3.3                   | 223                      | 762  | 192     | 1.9                   | 243                      | 831  | 209     |
|   | 4Ω            | 5.0                   | 288                      | 982  | 247     | 2.7                   | 279                      | 950  | 240     |
|   | 8Ω            | 4.9                   | 270                      | 920  | 232     | 2.5                   | 263                      | 896  | 226     |
|   | 70V (16.33Ω)  | 4.8                   | 267                      | 911  | 230     | 2.5                   | 262                      | 895  | 225     |
|   | 100V (33.33Ω) | 4.8                   | 274                      | 936  | 236     | 2.6                   | 272                      | 927  | 234     |
| 1/3 Power Pink Noise<br>Typical of program material at extreme clip | 2Ω            | 5.7                   | 263                      | 896  | 226     | 3.4                   | 331                      | 1131 | 285     |
|   | 4Ω            | 10.3                  | 417                      | 1423 | 359     | 5.3                   | 392                      | 1336 | 337     |
|   | 8Ω            | 10.0                  | 372                      | 1269 | 320     | 5.0                   | 341                      | 1165 | 294     |
|   | 70V (16.33Ω)  | 9.9                   | 366                      | 1250 | 315     | 5.0                   | 346                      | 1179 | 297     |
|   | 100V (33.33Ω) | 10.0                  | 395                      | 1347 | 340     | 5.1                   | 361                      | 1233 | 311     |

| DCi 8 300 - Bridge  |               |                       |                          |      |         |                       |                          |      |         |
|---|---------------|-----------------------|--------------------------|------|---------|-----------------------|--------------------------|------|---------|
|   |               | 120 VAC / 60 Hz       |                          |      |         | 230 VAC / 50 Hz       |                          |      |         |
| Condition   | Load          | "Line current (amps)" | Power Dissipated as Heat |      |         | "Line current (amps)" | Power Dissipated as Heat |      |         |
|   |               |                       | watts                    | BTU  | kcal/hr |                       | watts                    | BTU  | kcal/hr |
| At Idle Awake   | N/A           | 1.9                   | 221                      | 755  | 190     | 1.0                   | 216                      | 738  | 186     |
| 1/8 Power Pink Noise<br>Typical of program material just at clip    | 4Ω            | 3.5                   | 273                      | 932  | 235     | 1.9                   | 248                      | 847  | 213     |
|   | 8Ω            | 4.9                   | 292                      | 998  | 251     | 2.6                   | 276                      | 943  | 238     |
|   | 16Ω           | 4.8                   | 267                      | 910  | 229     | 2.6                   | 259                      | 885  | 223     |
|   | 140V (32.67Ω) | 4.7                   | 262                      | 892  | 225     | 2.5                   | 242                      | 824  | 208     |
|   | 200V (66.67Ω) | 4.6                   | 254                      | 867  | 218     | 2.5                   | 252                      | 858  | 216     |
| 1/3 Power Pink Noise<br>Typical of program material at extreme clip | 4Ω            | 6.7                   | 381                      | 1300 | 327     | 3.4                   | 341                      | 1165 | 293     |
|   | 8Ω            | 10.4                  | 436                      | 1488 | 375     | 5.4                   | 401                      | 1369 | 345     |
|   | 16Ω           | 9.8                   | 374                      | 1277 | 322     | 5.1                   | 337                      | 1151 | 290     |
|   | 140V (32.67Ω) | 9.4                   | 335                      | 1142 | 288     | 4.9                   | 291                      | 995  | 251     |
|   | 200V (66.67Ω) | 9.6                   | 347                      | 1185 | 299     | 4.7                   | 297                      | 1013 | 255     |



# AC Power Draw and Thermal Dissipation

## AC Power Draw and Thermal Dissipation:

Pink noise 12dB crest factor, bandwidth limited 22Hz to 22kHz.

Typical line impedance used.

Data based on all channels driven.

| DCi 8 600 - Dual  |               |                       |                          |      |         |                       |                          |      |         |
|---|---------------|-----------------------|--------------------------|------|---------|-----------------------|--------------------------|------|---------|
|   |               | 120 VAC / 60 Hz       |                          |      |         | 230 VAC / 50 Hz       |                          |      |         |
| Condition   | Load          | "Line current (amps)" | Power Dissipated as Heat |      |         | "Line current (amps)" | Power Dissipated as Heat |      |         |
|   |               |                       | watts                    | BTU  | kcal/hr |                       | watts                    | BTU  | kcal/hr |
| At Idle Awake   | N/A           | 1.9                   | 215                      | 733  | 185     | 1.0                   | 207                      | 705  | 178     |
| 1/8 Power Pink Noise<br>Typical of program material just at clip    | 2Ω            | 5.8                   | 333                      | 1135 | 286     | 2.9                   | 325                      | 1110 | 280     |
|   | 4Ω            | 8.5                   | 356                      | 1213 | 306     | 4.3                   | 336                      | 1147 | 289     |
|   | 8Ω            | 8.2                   | 311                      | 1061 | 267     | 4.2                   | 290                      | 990  | 249     |
|   | 70V (8Ω)      | 7.5                   | 283                      | 964  | 243     | 3.9                   | 287                      | 979  | 247     |
|   | 100V (16.67Ω) | 7.8                   | 281                      | 959  | 242     | 4.0                   | 267                      | 912  | 230     |
| 1/3 Power Pink Noise<br>Typical of program material at extreme clip | 2Ω            | 11.0                  | 466                      | 1589 | 400     | 5.7                   | 486                      | 1658 | 418     |
|   | 4Ω            | 19.0                  | 587                      | 2004 | 505     | 9.6                   | 558                      | 1906 | 480     |
|   | 8Ω            | 17.5                  | 448                      | 1529 | 385     | 8.8                   | 388                      | 1324 | 334     |
|   | 70V (8Ω)      | 17.1                  | 441                      | 1504 | 379     | 8.6                   | 379                      | 1294 | 326     |
|   | 100V (16.67Ω) | 16.6                  | 381                      | 1301 | 328     | 8.5                   | 344                      | 1173 | 296     |

| DCi 8 600 - Bridge  |               |                       |                          |      |         |                       |                          |      |         |
|---|---------------|-----------------------|--------------------------|------|---------|-----------------------|--------------------------|------|---------|
|   |               | 120 VAC / 60 Hz       |                          |      |         | 230 VAC / 50 Hz       |                          |      |         |
| Condition   | Load          | "Line current (amps)" | Power Dissipated as Heat |      |         | "Line current (amps)" | Power Dissipated as Heat |      |         |
|   |               |                       | watts                    | BTU  | kcal/hr |                       | watts                    | BTU  | kcal/hr |
| At Idle Awake   | N/A           | 1.8                   | 210                      | 718  | 181     | 1.0                   | 211                      | 721  | 182     |
| 1/8 Power Pink Noise<br>Typical of program material just at clip    | 4Ω            | 5.5                   | 328                      | 1118 | 282     | 2.8                   | 318                      | 1084 | 273     |
|   | 8Ω            | 8.2                   | 332                      | 1132 | 285     | 4.2                   | 305                      | 1041 | 262     |
|   | 16Ω           | 8.1                   | 303                      | 1032 | 260     | 3.8                   | 266                      | 909  | 229     |
|   | 140V (16.33Ω) | 7.4                   | 279                      | 952  | 240     | 3.8                   | 270                      | 923  | 233     |
|   | 200V (33.33Ω) | 7.3                   | 262                      | 895  | 226     | 3.8                   | 253                      | 862  | 217     |
| 1/3 Power Pink Noise<br>Typical of program material at extreme clip | 4Ω            | 10.5                  | 451                      | 1538 | 387     | 5.4                   | 437                      | 1492 | 376     |
|   | 8Ω            | 17.7                  | 516                      | 1759 | 443     | 9.0                   | 440                      | 1502 | 379     |
|   | 16Ω           | 17.3                  | 425                      | 1448 | 365     | 8.8                   | 374                      | 1277 | 322     |
|   | 140V (16.33Ω) | 16.9                  | 412                      | 1407 | 355     | 8.6                   | 368                      | 1255 | 316     |
|   | 200V (33.33Ω) | 16.7                  | 369                      | 1258 | 317     | 8.5                   | 311                      | 1061 | 267     |

# AC Power Draw and Thermal Dissipation

## AC Power Draw and Thermal Dissipation:

Pink noise 12dB crest factor, bandwidth limited 22Hz to 22kHz.

Typical line impedance used.

Data based on all channels driven.

| DCi 2 1250 - Dual  |           |                       |                          |     |         |                       |                          |      |         |
|--|-----------|-----------------------|--------------------------|-----|---------|-----------------------|--------------------------|------|---------|
|  |           | 120 VAC / 60 Hz       |                          |     |         | 230 VAC / 50 Hz       |                          |      |         |
| Condition  | Load      | "Line current (amps)" | Power Dissipated as Heat |     |         | "Line current (amps)" | Power Dissipated as Heat |      |         |
|  |           |                       | watts                    | BTU | kcal/hr |                       | watts                    | BTU  | kcal/hr |
| At Idle Awake  | N/A       | 0.8                   | 97                       | 330 | 83      | 0.5                   | 91                       | 311  | 78      |
| <b>1/8 Power Pink Noise</b><br>Typical of program material just at clip    | 2Ω        | 6.2                   | 198                      | 675 | 170     | 3.0                   | 182                      | 621  | 156     |
|  | 4Ω        | 5.1                   | 143                      | 489 | 123     | 2.5                   | 138                      | 469  | 118     |
|  | 8Ω        | 4.2                   | 106                      | 361 | 91      | 2.3                   | 154                      | 526  | 132     |
|  | 70V (4Ω)  | 4.1                   | 132                      | 450 | 113     | 2.1                   | 126                      | 430  | 108     |
|  | 100V (8Ω) | 3.8                   | 122                      | 418 | 105     | 2.1                   | 143                      | 487  | 123     |
| <b>1/3 Power Pink Noise</b><br>Typical of program material at extreme clip | 2Ω        | 11.4                  | 275                      | 938 | 236     | 6.4                   | 314                      | 1071 | 270     |
|  | 4Ω        | 10.4                  | 220                      | 750 | 189     | 5.2                   | 235                      | 802  | 202     |
|  | 8Ω        | 9.4                   | 221                      | 754 | 190     | 4.6                   | 179                      | 611  | 154     |
|  | 70V (4Ω)  | 9.0                   | 260                      | 886 | 223     | 4.6                   | 197                      | 671  | 169     |
|  | 100V (8Ω) | 8.7                   | 196                      | 669 | 169     | 4.5                   | 176                      | 602  | 152     |

| DCi 2 1250 - Bridge  |            |                       |                          |     |         |                       |                          |     |         |
|--|------------|-----------------------|--------------------------|-----|---------|-----------------------|--------------------------|-----|---------|
|  |            | 120 VAC / 60 Hz       |                          |     |         | 230 VAC / 50 Hz       |                          |     |         |
| Condition  | Load       | "Line current (amps)" | Power Dissipated as Heat |     |         | "Line current (amps)" | Power Dissipated as Heat |     |         |
|  |            |                       | watts                    | BTU | kcal/hr |                       | watts                    | BTU | kcal/hr |
| At Idle Awake  | N/A        | 0.8                   | 96                       | 329 | 83      | 0.5                   | 91                       | 311 | 78      |
| <b>1/8 Power Pink Noise</b><br>Typical of program material just at clip    | 4Ω         | 4.1                   | 175                      | 598 | 151     | 2.1                   | 141                      | 483 | 122     |
|  | 8Ω         | 4.2                   | 142                      | 485 | 122     | 2.2                   | 127                      | 434 | 109     |
|  | 16Ω        | 4.1                   | 155                      | 529 | 133     | 2.0                   | 105                      | 360 | 91      |
|  | 140V (8Ω)  | 3.9                   | 143                      | 486 | 123     | 2.1                   | 141                      | 481 | 121     |
|  | 200V (16Ω) | 3.6                   | 111                      | 378 | 95      | 2.1                   | 132                      | 451 | 114     |
| <b>1/3 Power Pink Noise</b><br>Typical of program material at extreme clip | 4Ω         | 9.6                   | 276                      | 943 | 238     | 5.0                   | 233                      | 796 | 201     |
|  | 8Ω         | 9.8                   | 218                      | 743 | 187     | 4.8                   | 211                      | 719 | 181     |
|  | 16Ω        | 9.5                   | 204                      | 696 | 175     | 4.9                   | 209                      | 715 | 180     |
|  | 140V (8Ω)  | 9.1                   | 224                      | 763 | 192     | 4.6                   | 200                      | 682 | 172     |
|  | 200V (16Ω) | 8.7                   | 160                      | 546 | 138     | 4.7                   | 208                      | 711 | 179     |

# AC Power Draw and Thermal Dissipation

## AC Power Draw and Thermal Dissipation:

Pink noise 12dB crest factor, bandwidth limited 22Hz to 22kHz.

Typical line impedance used.

Data based on all channels driven.

| DCi 4 1250 - Dual  |           |                       |                          |      |         |                       |                          |      |         |
|--|-----------|-----------------------|--------------------------|------|---------|-----------------------|--------------------------|------|---------|
|  |           | 120 VAC / 60 Hz       |                          |      |         | 230 VAC / 50 Hz       |                          |      |         |
| Condition  | Load      | "Line current (amps)" | Power Dissipated as Heat |      |         | "Line current (amps)" | Power Dissipated as Heat |      |         |
|  |           |                       | watts                    | BTU  | kcal/hr |                       | watts                    | BTU  | kcal/hr |
| At Idle Awake  | N/A       | 1.5                   | 178                      | 607  | 153     | 0.9                   | 180                      | 615  | 155     |
| <b>1/8 Power Pink Noise</b><br>Typical of program material just at clip    | 2Ω        | 10.4                  | 363                      | 1237 | 312     | 4.4                   | 259                      | 884  | 223     |
|  | 4Ω        | 9.0                   | 253                      | 862  | 217     | 4.4                   | 257                      | 878  | 221     |
|  | 8Ω        | 8.4                   | 268                      | 913  | 230     | 4.3                   | 244                      | 831  | 210     |
|  | 70V (4Ω)  | 7.2                   | 204                      | 695  | 175     | 4.0                   | 238                      | 811  | 204     |
|  | 100V (8Ω) | 7.9                   | 216                      | 738  | 186     | 3.8                   | 216                      | 737  | 186     |
| <b>1/3 Power Pink Noise</b><br>Typical of program material at extreme clip | 2Ω        | 20.6                  | 531                      | 1813 | 457     | 9.9                   | 458                      | 1563 | 394     |
|  | 4Ω        | 19.5                  | 497                      | 1696 | 427     | 9.8                   | 393                      | 1342 | 338     |
|  | 8Ω        | 18.0                  | 421                      | 1436 | 362     | 9.1                   | 331                      | 1130 | 285     |
|  | 70V (4Ω)  | 16.6                  | 384                      | 1311 | 330     | 8.6                   | 337                      | 1150 | 290     |
|  | 100V (8Ω) | 17.0                  | 377                      | 1285 | 324     | 8.7                   | 313                      | 1069 | 269     |

| DCi 4 1250 - Bridge  |            |                       |                          |      |         |                       |                          |      |         |
|--|------------|-----------------------|--------------------------|------|---------|-----------------------|--------------------------|------|---------|
|  |            | 120 VAC / 60 Hz       |                          |      |         | 230 VAC / 50 Hz       |                          |      |         |
| Condition  | Load       | "Line current (amps)" | Power Dissipated as Heat |      |         | "Line current (amps)" | Power Dissipated as Heat |      |         |
|  |            |                       | watts                    | BTU  | kcal/hr |                       | watts                    | BTU  | kcal/hr |
| At Idle Awake  | N/A        | 1.5                   | 179                      | 612  | 154     | 0.9                   | 180                      | 614  | 155     |
| <b>1/8 Power Pink Noise</b><br>Typical of program material just at clip    | 4Ω         | 8.2                   | 287                      | 979  | 247     | 4.1                   | 281                      | 961  | 242     |
|  | 8Ω         | 7.8                   | 254                      | 866  | 218     | 4.0                   | 232                      | 791  | 199     |
|  | 16Ω        | 8.0                   | 262                      | 896  | 226     | 4.1                   | 224                      | 766  | 193     |
|  | 140V (8Ω)  | 7.7                   | 266                      | 908  | 229     | 4.0                   | 234                      | 799  | 201     |
|  | 200V (16Ω) | 7.8                   | 256                      | 873  | 220     | 3.9                   | 255                      | 870  | 219     |
| <b>1/3 Power Pink Noise</b><br>Typical of program material at extreme clip | 4Ω         | 18.0                  | 528                      | 1802 | 454     | 9.4                   | 497                      | 1696 | 428     |
|  | 8Ω         | 17.9                  | 416                      | 1418 | 357     | 9.5                   | 362                      | 1237 | 312     |
|  | 16Ω        | 17.6                  | 401                      | 1367 | 344     | 8.9                   | 308                      | 1052 | 265     |
|  | 140V (8Ω)  | 17.1                  | 375                      | 1278 | 322     | 8.7                   | 364                      | 1242 | 313     |
|  | 200V (16Ω) | 17.0                  | 366                      | 1249 | 315     | 8.8                   | 313                      | 1067 | 269     |

## Warranty and Service

This unit has very sophisticated circuitry which should only be serviced by a fully trained technician. This is one reason why each unit bears the following label:



**CAUTION: To prevent electric shock, do not remove covers. No user serviceable parts inside. Refer servicing to a qualified technician.**

For all warranty and service information please see relevant pages found at [www.crownaudio.com](http://www.crownaudio.com)







