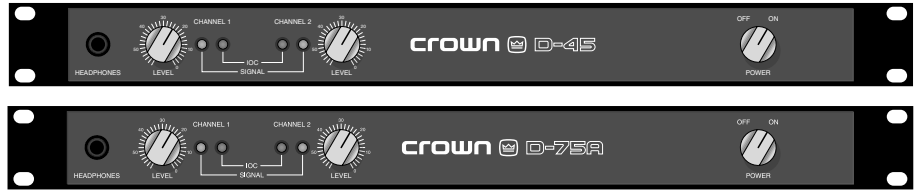


D-45 D-75A

D SERIES



The Crown® D Series delivers dependable operation with a wide variety of loads.

Because of their exceptional reliability, D-Series amplifiers have become the leading choice of professionals for use in recording studios, laboratories and public facilities. You can even find them on the road. Their sonic excellence also makes them a very good choice for your personal listening pleasure.

D-Series amplifiers are compact and provide ultra-low distortion for medium power applications. Crown's advanced AB+B circuitry ensures efficient operation and protects against shorted, open, mismatched or low-impedance loads that can affect any amplifier's performance. Crown further protects your investment with the industry's only Three-Year, No-Fault, Fully Transferable Warranty. After learning about your amplifier's features, facilities and capabilities, you'll understand why Crown power amplifiers have long been recognized as the worldwide standard for audio excellence.

For more details about the D-45 and D-75A, contact the Crown Technical Support Group at 800-342-6939 or 574-294-8200. Also, visit the Crown Audio website at www.crownaudio.com.

Specifications

The following apply to units in dual mode with both channels driven into 8 ohm loads and an input sensitivity of 26 dB gain unless otherwise specified.

Performance

Frequency Response: ± 0.1 dB from 20 Hz to 20 kHz at 1 watt.

Phase Response: +10 to -15 degrees from 20 Hz to 20 kHz at 1 watt.

Signal-to-Noise: 106 dB from 20 Hz to 20 kHz at full bandwidth FTC power.

Features

- Powerful AB+B class circuitry yields maximum efficiency with minimum crossover "notch" distortion
- IOC® (Input/Output Comparator) alerts of any distortion that exceeds 0.05% to provide proof of distortion-free performance
- Signal presence indicators verify the presence of amplifier output
- Detented level controls for precise repeatability
- Ultra-low harmonic and intermodulation distortion result in the best dynamic transfer function in the industry
- Very low noise and wide dynamic range exceed the audio specifications for digital compact discs (CDs)
- High damping factor provides exceptional loudspeaker motion control
- Convection cooling system dissipates heat through the heat sinks and chassis for optimal cooling and maintenance-free operation
- Mounts in a standard 19-inch (48.3-cm) rack
- Three-Year, No-Fault, Fully Transferable Warranty protects your investment and guarantees its specifications

Total Harmonic Distortion (THD): Less than 0.001% at full bandwidth FTC power from 20 Hz to 400 Hz increasing linearly to 0.05% at 20 kHz.

Intermodulation Distortion (IMD): (60 Hz and 7 kHz 4:1) Less than 0.01% from 0.25 watts to full bandwidth FTC power, and less than 0.05% from 0.01 to 0.25 watts.

Crosstalk: Greater than 100 dB below full bandwidth FTC power from 100 Hz to 1 kHz decreasing linearly to 80 dB at 20 kHz.

Damping Factor: Greater than 400 from DC to 400 Hz.

Controlled Slew Rate: 6 volts per ms. (Slew rates are limited to useful levels for ultrasonic/RF protection.)

Voltage Gain:

At the maximum level setting, 8-ohm load, 0.775V input sensitivity.

D-45: 18.3:1 $\pm 3\%$ or 25.2 dB ± 0.3 dB.

D-75A: 23:1 $\pm 3\%$ or 27.3 dB ± 0.3 dB.

Power

Output Power: See power charts below.

Load Impedance: Safe with all types of loads. Rated for 4 to 16 ohms in dual mode, and 8 to 16 ohms in bridge-mono mode.

AC Line Voltage and Frequency Configurations

Available: 100, 120, 220 and 240VAC ($\pm 10\%$), 50 to 400 Hz for international units (depending on the transformer configuration). North American 120VAC, 60 Hz units are not convertible and can only be used at the specified voltage and frequency. All units draw 15 watts or less when idle. Maximum AC power consumption is 150 watts.

Controls

Power: A two-position front panel rotary on/off switch.

Level: An independent 31-position detented front panel level control for each channel.

Dual/Mono: The dual/mono jumper is located inside the amplifier.

Ground Lift: To prevent ground loops, the chassis and signal grounds are separated (or "lifted") by a permanent impedance installed between them. There is no control for this feature.

Indicators

Signal Presence: The green front panel indicator for each channel flashes synchronously with the channel's output signal to indicate its presence.

Input/Output Comparator: The red Input/Output Comparator (IOC) indicator for each channel flashes if any type of distortion reaches 0.05%.

D-45

	*1 kHz Power
4 ohm Dual (per channel)	35W
8 ohm Dual (per channel)	25W
16 ohm Dual (per channel)	20W
8 ohm Bridge-Mono	70W
16 ohm Bridge-Mono	50W

*1 kHz Power: refers to maximum average power in watts at 1 kHz with 0.1% THD.

D-75A

	*1 kHz Power
4 ohm Dual (per channel)	55W
8 ohm Dual (per channel)	40W
16 ohm Dual (per channel)	25W
8 ohm Bridge-Mono	110W
16 ohm Bridge-Mono	80W

*1 kHz Power: refers to maximum average power in watts at 1 kHz with 0.1% THD.

D-45 D-75A



Input/Output

Input Connector: A balanced 3-pin female Neutrik® combination XLR and ¼-inch (6.35-mm) phone connector for each channel.

Input Impedance: Nominally 20 k ohms, balanced. Nominally 10 k ohms, unbalanced.

Input Sensitivity: Configurable for 26 dB gain or 0.775 volt sensitivity.

Output Connector: Barrier block terminals and stereo headphone jack. The headphone output is unpaddinged, and in parallel with the main amplifier outputs.

Output Impedance: Less than 15 milliohms in series with less than 3 microhenries.

DC Output Offset: 10 millivolts or less.

Output Signal

Dual: Unbalanced, two channel.

Bridge-Mono: Balanced, single channel. Channel 1 controls are active; channel 2 controls should be turned down.

Protection

Input: The inputs have series resistance that provides input overload protection. Controlled slew rate voltage amplifiers protect against radio frequencies. The AC line is fused to protect against excessive current draw.

Output: Instantaneous limiting protection for short circuits, open circuits and mismatched loads.

Turn-On: Minimum thumps. Power-up is instantaneous with no program delay.

Construction

Durable black finish on aluminum front panel with gray suede Lexan insert. Aluminum chassis provides maximum heat conduction and minimum weight.

Dimensions: 19-inch (48.3 cm) rack mount width, 1.75 inches (4.5 cm) high, 8.5 inches (21.6 cm) deep behind the mounting surface, and a 0.625-inch (1.6-cm) protrusion in front of the mounting surface.

Net Weight:

D-45: 8 lb, 11 oz (3.9 kg)

D-75A: 9 lb, 7 oz (4.3 kg).

Shipping Weight:

D-45: 10 lb, 9 oz (4.8 kg)

D-75A: 11 lb, 4 oz (5.1 kg).

Cooling: The amplifier is totally convection cooled. The entire aluminum chassis acts as a conductor to dissipate heat. The covers and front panel extrusion also act as heat sinks. Much of the unit's heat is conducted through the extruded front panel. This design is used so that front panel contact with the equipment rack will also dissipate heat.

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

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

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



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Specifications subject to change without prior notice. Latest information available at www.crownaudio.com.

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