



A-Headphone Jack B-Channel 1 Input Level Control C-Channel 1 Signal Presence LED D-Channel 1 IOC[™] (Input Output Comparitor) LED E-Channel 2 IOC[™] (Input Output Comparitor) LED F-Channel 2 Signal Presence LED G-Channel 2 Input Level Control H-On/ Off Switch I-Ground Isolation Terminal



1718 W. Mishawaka Road, Elkhart, Indiana 46514 American Innovation and Technology Since 1951

J-Fuse Holder K-AC Power Line L-Channel 2 Main Outputs M-Channel 1 Main Outputs N-Channel 2 Balanced Input (XLR) O-Channel 2 Unbalanced Input (¼" Phone) P-Mono/Stereo Switch R-Channel 1 Unbalanced Input (¼" Phone) S-Channel 1 Balanced Inputs (XLR)

Crown products are exported under the name "Amcron".

Printed in U.S.A.

Crown D-75 Power Amplifier

The CROWN D-75 power amplifier, requiring only 11/4" (4.45cm) of vertical rack space, was designed to operate safely and continuously into a variance of load requirements. The D-75 provides 35 watts per channel minimum RMS (both channels operating) into an 8 ohm load over a bandwidth of 20Hz-20K Hz at a rated sum total harmonic distortion that is 0.05% of the fundamental output voltage. The frequency response of the unit varies no more than ±0.1dB from 20Hz-20KHz at 1 watt into 8 ohms. Features of the D-75 include active balanced inputs, XLR connectors, an easily accessible mono-stereo switch, and front panel LEDs indicating overloads and signal presence. A special feature of the D-75 is the provision for isolating chassis ground from electrical ground. The D-75 offers traditional Crown durability and a full 3 year warranty.

Architects Engineers Specifications

The power amplifier, being of two channels, shall deliver a minimum of 35 watts into 8 ohms each with both channels operating, or 45 watts into loads of 4 ohms each with both channels operating. When strapped into mono, it shall be capable of delivering 70 watts into a 16 ohm load or 95 watts into 8 ohm loads. The amplifer's outputs shall have internal protection against possible shorted, mismatched and open circuits. It shall provide instantaneous limiting with no annoying thumps or cutouts. The circuitry shall incorporate voltage amplifiers whose slew rate is controlled to protect the overall amplifier against RF burnout. The D-75 shall provide (in dualchannel operation) a voltage gain of 20.6 ±2%, (or 26.3 ±0.2dB) at maximum gain, have an input sensitivity of 0.81 volts ±2% for full rated output and be capable of driving any load safely -including completely reactive loads. Hum and noise shall be 110dB below the rated output from 20Hz-20KHz. Intermodulation distortion shall be less than 0.05% from .01 watt to 35 watt into 8 ohms (per channel). The dimensions shall allow for standard 19" (48.26cm) EIA rack mounting. It shall be 13/4" (4.45cm) high and 9" (22.86cm) deep from the mounting surface. It shall weigh 10 lbs (4.5Kg) net. The power requirements shall be 50 to 400 Hz AC with adjustable taps for 120 or 240V ±10%. At idle the amplifier shall draw 15 watts or less and at its full rated output, it shall draw 120 watts. The amplifier shall be class AB+B and be of completely solid state design with a frequency response from 5Hz-100K Hz, ±1.2dB at 1 watt into 8 ohms. The power amplifier shall be a CROWN D-75.

Standard **Specifications**

Output Power

Output Power

Output Power (8 ohm):

Output Power

(16 ohm):

Voltage Gala:

(8 ohm):

(4 ohms):

45 watts per channel minimum RMS (both channels operating) into a 4 ohm load over a bandwidth of 20Hz-20K Hz at a rated RMS sum total harmonic distortion of 0.05% of the fundamental output voltage (stereo). 35 watts per channel minimum RMS (both channels operating) into an 8 ohm load over a bandwidth of 20Hz-20KHz, at a rated RMS sum total harmonic distortion of .05% of the fundamental output voltage (stereo). 95 watts minimum RMS into an 8 ohm load over a bandwidth of 20 Hz-20K Hz at a rated RMS sum total harmonic distortion of 0.05% of the fundamental output voltage (mono). 70 watts minimum RMS into a 16 ohm load over a bandwidth of 20Hz-20KHz at a rated RMS sum total harmonic distortion of 0.05% of the fundamental

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output voltage (mono).

Power vs. Frequency (stereo)

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Power vs. Frequency (mono)

20.6 = (or 26.3 ±2dB) at maximum gain

matched or open outputs. Volt-ampere

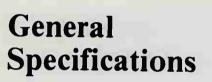
limiting circuitry acts instantaneously

rements: AC voltage

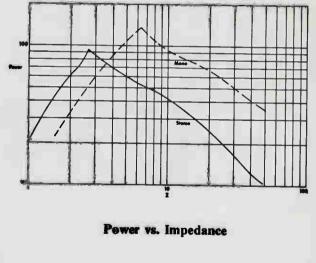
mption:

EIA Specifications

-	cations			
Power Output (4 ohms):	74 watts RMS at less than 1% disto tion ±1dB over the frequency range 20Hz-20K Hz. In the stereo mode sing channel driven into 4 ohm load.			
Power Output (8 ohms):	50 watts RMS at less than 1% distortion ±1dB over the frequency range of 20 Hz-20K Hz. In the stereo mode single channel driven into 8 ohms load.			
Power Output (8 ohm):	100 watts RMS at less than 1% disto tion ± 1 dB over the frequency range of 20Hz-20KHz. In the mono mode int an 8 ohm load.			
Power Output (16 ohm):	80 watts RMS at less than 1% distor tion ±1dB over the frequency range of 20Hz-20KHz. In the mono mode into 16 ohm load.			
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	14			
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	12			
60 50 40 30 20	0 10 0 10 20 30 40 50 60			
32	Vour volts 32			
	VI Plot			
	t Voltage vs. Current Available			



Frequency Response:	±0.1dB 20Hz-20KHz at 1 watt into 8 ohms (stereo).		(stereo). 41.2 ±2% (or 32.3 ±0.2dB) at maximum gain (mono).
	±1.2dB 5Hz-100Hz at 1 watt into 8 ohms (stereo). ±0.2dB 20Hz-20K Hz, 1 watt, 16 ohms (mono). ±1dB 6Hz-50K Hz, 1 watt, 16 ohmas	Imput Sensitivity:	.812 volts ±2% for 35 watts into 8 chms (stereo). .812 volts ±2% for 70 watts into 16 ohms (mono).
	(mono).	Output Signal:	Unbalanced, dual channel (stereo).
IKHZ Power:	40 watts RMS into 8 ohms, per chan- nel, both channels operating, 0.1% total harmonic distortion; 55 watts		Balanced, single channel. Channel 1 controls are active, Channel 2 is in- active, but not cut out.
	RMS into 4 ohms, per channel, both channels operating, 0.1% total harmonic distortion.	Hum and Noise:	From 20Hz to 20KHz the hum and noise level is 110dB below the rated output.
	80 watts RMS into 16 ohms; 110 watts	Phase Response:	+10°, -15° 20Hz-20K Hz at 1 watt.
	RMS into 8 ohms, 0. 1% total harmonic distortion (mono).	Input Impedance:	(XLR balanced) 20,000 ohms at ±30%
Harmonic Distortion:	Less than 0.001% from 20Hz-400Hz, and increasing linearly to 0.05% at		(XLR unbalanced) 10,000 ohms ±30%. (Phone jacks unbalanced) 25,000 ohms ±30%.
	20K Hz at 35 watts RMS per channel into 8 ohms (stereo).	Amplifier Output	Total protection against shorted, mis-



Changing

ators

nectors, Input:

and Link:

Heat Sinking:

sink. Front-panel extrusion acts as a sink along with the chassis covers. Aluminum-chassis construction for

The entire amplifier is used as a heat

	Into 8 ohms (stereo). Less than 0.001% from 20 Hz-400 Hz and increasing linearly to 0.05% at 20K Hz at 70 watts into 16 ohms (mono).	Protection: Overall Protection:
M. Distortion 50Hz-7KHz 4:1):	Less than 0.05% from 0.01 watts to 0.25 watts, and less than 0.01% from 0.25 watts to 70 watts into 16 ohms (mono). Less than 0.05% from 0.01 watts to 0.25 watts, and less than 0.01% from 0.25 watts to 35 watts into 8 ohms per channel (stereo).	DC Output Offset; Turn On:
lewing Rate:	6 volts per microsecond (stereo). 12 volts per microsecond (mono).	Circuit:
amping Factor:	Greater than 400, DC-400Hz into 8 ohms (stereo). Greater than 400, DC-400Hz into 16 ohms (mono).	United.
utput Impedance:	Less than 15 milliohms in series with less than 3 microhenries (stereo). Less than 30 milliohms in series with less than 6 microhenries (mono).	Power Supply:
oad Impedance:	Rated for 8 and 4 ohm usage; safely drives any load including completely reactive loads (stereo). Rated for 8 and 16 ohm usage, safely	Power Requirement
	drives any load including completely reactive loads (mono).	Power Consumption

with no annoying thumps or cutouts.	6	Controls
AC line fused. The controlled slewing rate of the voltage amplifiers protect the overall amplifier against RF burn-		
out. Input overload protection is furnished by an internal resistance at the amplifier's inputs.		Indicator
(shorted input) ±10 millivolts.		Connecto
Instantaneous, with minimum thump and no program delay.		
A total of 42 transistors, 18 signal diodes, 2 zener diodes, 4 rectifiers and 1 linear IC (dual op-amp) are utilized in a wideband multiple feedback loop design.		Ground I
A specially designed low profile trans- former, two regulated supplies for complete isolation and stability plus		Output:
computer grade filter capacitors serve to power the D-75.		Dimensio
AC voltage of 100, 120, 200, 220, and 240 volts $\pm 10\%$ at a line-frequency be-		
tween 50 and 400 Hz may be used.		Weight:
±15 watts while at idle, 120 watts at the full rated output.		Finish:

maximum heat conduction and minimum weight.

Two input-level controls and a power switch on the front panel. A monostereo switch, located next to the input jacks, on the rear panel.

2 1OC indicators (red). 2 signal-presence indicators (green). 1 power indicator (amber).

Cannon 3 pin audio connector in which pin 2 is positive, (for a positive output signal) or 1/4" phone jack.

A means for isolating chassisground from electrical ground is provided on the rear panel. The grounds are always connected internally by 2.7 ohms.

Color-coded binding posts with a 1/4" stereo headphone jack on the front panel.

19" long, 9" deep, and 134" high (81/2" deep from mounting surface). A 19" Western Electric standard rackmounting system is utilized.

10 pounds net weight.

Satinized aluminum front panel with gray suede Lexan insert.