



CXA120

Single Channel 120 W Power Amplifier

FEATURES

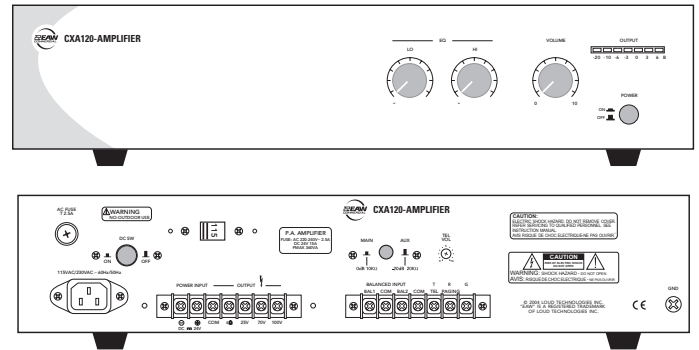
- Discrete component 120 W power amplifier
- Convection cooling for quiet operation
- Two actively balanced inputs
- Voice activated priority override
- 2 rack unit mounting kit included

DESCRIPTION

The CXA120 is designed for continuous duty in speech, music, paging, and sound reinforcement applications demanding high performance, flexible features, and rugged dependability. Screw terminals provide connections for the two, discrete, actively balanced inputs. The main program input is a conventional input, featuring a 0 dB (Main) / -20 dB (Aux) sensitivity switch for low-level and high-level input signals. The second telephone/paging input has voice-activated priority over the main program input as well as a volume trim control.

The CXA120 provides outputs for 4 ohm loads and for 25 V, 70 V, and 100 V distributed systems. The output stage is designed with smart circuitry that protects against permanent damage caused by overloading, shorts, and extreme temperatures. Front panel controls include master volume, bass, and treble. The bass and treble controls provide shelving equalization at 100 Hz and 10 kHz. The front panel meter indicates the output signal level, ranging from -20 dB to +6 dB.

The CXA120 operates on 115 V or 230 V AC mains determined by a voltage select switch. A 24 V DC power input allows connecting backup battery power with automatic AC to DC switchover. Five year warranty.



APPLICATIONS

- *Paging Systems*
- *Houses of Worship*
- *Hotel and Ballrooms*
- *Meeting Rooms*
- *Schools*
- *Offices*
- *Foreground/Background Music Systems*

PERFORMANCE

Inputs (balanced / unbalanced)

	Sensitivity	Impedance
Main	1 V / 0.5 V	10k ohm
Aux	100 mV / 50 mV	20k ohm
Tel/Paging	Variable	300 ohm

Output

	Maximum	Load Impedance
Low Z	120 W	4 ohm
High Z	25 V / 70 V / 100 V	15 ohm / 42 ohm / 83 ohm

Operating Range (+/-3 dB)

Main In to Amp Out	50 Hz to 15 kHz
--------------------	-----------------

Noise

Main In to Amp Out	>75 dB (below maximum output)
--------------------	-------------------------------

Distortion (THD, 120 W @ 1 kHz)

	<0.5%
--	-------

PHYSICAL

Front Controls

	Type	Range
Equalization	Lo	+/-10 dB @ 100 Hz
	Hi	+/-10 dB @ 10 kHz
Master Volume	Level	0 to 10
Power Switch	ac mains	On / Off

Rear Controls

Power Switch	24 V DC	On / Off
Main/Aux Sensitivity	Switched	0 dB / -20 dB
Tel/Paging Input	Level	0 to 10

Mains Power

	Rating	Fuse
ac (50/60 Hz)	115 V / 230 V (+/-5%)	2.5 A fuse
DC	24 V	15 A fuse
Power Input	285 W	

Environmental

Maximum Ambient	131° F / 55° C
Humidity	Non-precipitating

Dimensions (inches / mm)

H x W x D	3.5 x 17.1 x 13.2	89 x 435 x 335
Height with feet	3.9	100

Weight (approximate net lb / kg)

	19.4	8.8
--	------	-----