



# CXA120

## Single Channel 120 W Power Amplifier

### FEATURES

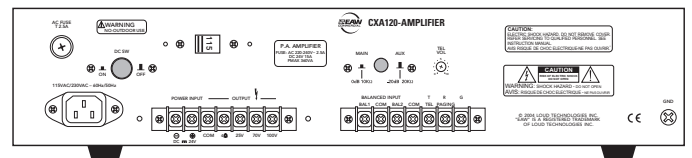
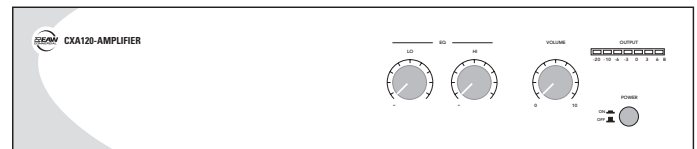
- Discrete component 120 W power amplifier
- Convection cooling for quiet operation
- Two actively balanced inputs
- Voice activated priority override
- 2 rack unit mounting kit included

### 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)

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

#### Output

	<b>Maximum</b>	<b>Load Impedance</b>
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
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#### Noise

Main In to Amp Out	>75 dB (below maximum output)
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#### Distortion (THD, 120 W @ 1 kHz)

	<0.5%
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### PHYSICAL

#### Front Controls

	<b>Type</b>	<b>Range</b>
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

	<b>Rating</b>	<b>Fuse</b>
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
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