

Product Guide**A 4395** 500W 100V Public Address Mixer Amplifier

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**Overview**

The Redback A 4395 is a 500 Watt Mixer amplifier for installations requiring a high power zone amplifier. Ideally suited for use in shopping centres, pedestrian precincts, public transport facilities and convention centres.

Flexible input design

The amplifier has two audio inputs, with input 1 either a balanced XLR input or dual RCA line input, and input 2 a dual RCA. There is also a music input on the front of the amplifier for connection of portable devices. This input when connected, over-rides the rear input 2 audio source and is adjusted via the volume 2 level control. Phantom power (15 Volts) is available at the 3 pin XLR on input 1 and both inputs 1 and 2 have adjustable input sensitivities.

High Performance

A 4395 conservatively delivers 500W RMS of power. Frequency response extends from 50Hz to 12kHz at a total harmonic distortion (THD) of less than 0.5%. Output may be 100V line or low impedance (4 - 16Ω) speaker loads.

Protection Features

Fitted with in-built thermal overload shutdown, over current and short circuit protection for reliable operation in all conditions.

VOX Muting Functionality

A VOX circuit with front panel sensitivity adjustment, allows input 1 to mute input 2.

Key Features

- ✓ **Australian made**
- ✓ **10 year manufacturer warranty with local product support**
- ✓ Robust design incorporating latest MOSFET technology
- ✓ Very low noise and distortion
- ✓ 70V, 100V and 4-16Ω outputs
- ✓ 240V AC or 24V DC operation
- ✓ 24V DC @ 1A output for external devices
- ✓ 300mA battery trickle charge
- ✓ Adjustable input level sensitivities
- ✓ Bass and treble controls
- ✓ Phantom power on microphone input (XLR Input 1)
- ✓ Multi stage thermally cued fan cooling
- ✓ Output peak limited
- ✓ Thermal overload protected
- ✓ Signal presence Indicators
- ✓ Fault indicators
- ✓ Power status indicators
- ✓ Rack mountable (suits 19" racks)

About Redback® Public Address Amplifiers

Redback® amplifiers are proudly designed, engineered and manufactured in Australia.

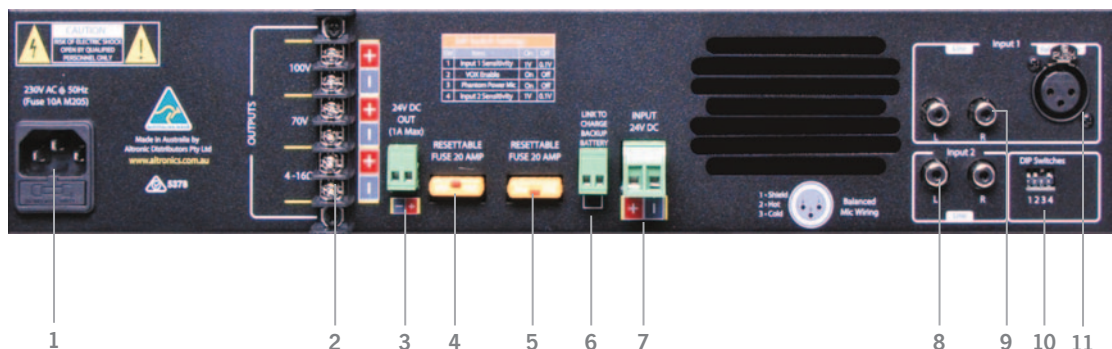
Each unit is covered by a comprehensive 10 year parts and labour warranty. Redback® offers rock solid reliability from over 30 years experience in the commercial sound industry. Redback® offer locally available servicing and parts, plus the ability to offer feedback direct to the manufacturer.

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Rear Panel



1	240V AC input	5	20A DC resettable blade fuse	9	RCA input 1
2	100V/70/4-16Ω line terminals	6	24V DC battery charge link terminal	10	DIP input selection options
3	24V DC 1A output terminal	7	24V DC input terminals	11	XLR 3 pin balanced (input 1)
4	20A DC resettable blade fuse	8	RCA input 2		

Specifications

Electrical

Power output:	500 Watts RMS
Distortion:	< 0.5% @ 1kHz
Output line:	100V, 70V or 4-16Ω
Signal to noise ratio (Limiting by-passed)	
Mic inputs:	Typically 75dB below rated output.
Line inputs:	Typically 81dB below rated output.
Mic input frequency response:	50Hz - 12kHz, -3dB
Line input frequency response:	50Hz - 15kHz, -3dB
Input sensitivity:	100mV or 1V
Power supply:	240V AC or 24V DC
Current draw:	350mA standby, 17A full load
240V AC power:	IEC power connector
24V DC power:	Screw terminal
Protection:	10A AC, 20A DC fuses
VOX muting:	60dB below rated output
LED indicators:	Power, signal present, output peak limiting, overtemp, current limit, shutdown, VOX active, 24V DC, mains

Controls

Volume 1:	Controls mic 1 / line 1
Volume 2:	Controls mic 2 / line 2 (and music input)
Bass:	±10dB @ 100Hz
Treble:	±10dB @ 10kHz
Power:	On/Off switch

Mechanical

Dimensions:	483W x 410D x 88H mm
Weight:	≈19.5kg

Connections

Inputs	Mic 1	Line 1-2
	3 pin XLR fem. (balanced)	Stereo RCA line 1-2 3.5mm jack line 2

Outputs	Speakers
	Screw terminals for 100V line, 70V line and 4-16Ω

Notes: We do not recommend using this amplifier with a combination of low impedance and 100V line speakers.

Architect Specifications

A 4385A

The amplifier shall have a power output of 250 Watts RMS. The unit shall have 4 inputs. Inputs 1 to 3 consisting of one balanced XLR microphone input and dual RCA line input. In addition, a local music input shall have a 3.5mm stereo line unbalanced input. Frequency response shall be 50Hz – 10 kHz (-3dB) for microphone inputs and 60Hz – 15 kHz (-3dB) for line inputs.

The unit shall have separate volume controls for each microphone / line input and tone controls providing 10dB cut or boost at 100Hz and 13dB cut or boost at 10kHz.

The unit shall operate from 240V AC or 24V DC with a LED indicator, and be fuse protected. The unit shall have overload protection via DC fuses.

The amplifier shall be capable of delivering full power of 100V RMS into a 333 ohm (125W) inductive load with less than 0.5% distortion measured at 1 kHz and with system hum and noise typically -75dB with all volume controls at minimum. The speaker outputs shall be 100V and 4-16 ohms provided via screw terminals. Tape output shall be provided via dual RCA sockets. Internal muting shall be provided by the VOX muting circuit. Muting should be configurable so that input 1 shall over-ride inputs 2, 3 and local music or input 2 shall override input 3 and local music.

The amplifier shall be housed in a high quality 2RU metal chassis suitable for rack mounting.

The amplifier shall be a REDBACK PHASE 4 model A 4385A



Made in Australia by Altronic Distributors Pty. Ltd.

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