

Product Guide**A 4385A** 250W 100V Public Address Amplifier

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**Overview**

Specifically designed for applications requiring up to three microphone inputs, without compromising output power and overall performance. Each model features three inputs which can be configured for either microphone or line level operation.

Powered by either 240V AC mains or 24V DC permitting battery backup operation during mains power failure. The A 4385A features thermal overload shutdown to protect the amplifier if a speaker fault condition develops. Master volume can be controlled remotely via figure 8 cable and the A 2280B wall control unit or 1K potentiometer (part no. R 2202).

High Performance

A 4385A conservatively delivers 250W RMS of power. Frequency response extends from 40Hz to 10kHz at a total harmonic distortion (THD) of less than 0.5%. Output may be 100V line or low impedance (8 - 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

Available on inputs 1 and 2. Once activated input 1 will override all other inputs including the alert/evac input. Input 2 will override inputs 3 & 4. Both mic and aux inputs will activate the vox muting. These are factory set in the ON position.

Optional Alert Evac Module A 4573

Simple to install plugin module supplied preloaded with international standard evacuation tones conforming to AS1670.4.2004.

As well as the standard tones there is a voice over feature which allows a pre-recorded message of up to 16 seconds duration to be triggered.

Key Features

- ✓ **Australian made**
- ✓ **10 year manufacturer warranty with local product support**
- ✓ 3 Balanced microphone inputs with phantom power
- ✓ 4 Stereo line inputs
- ✓ 240V AC or 24V DC operation
- ✓ VOX muting on inputs 1 and 2
- ✓ Tape output RCA sockets
- ✓ Bass and treble tone controls
- ✓ Output terminals for 100V line, 70V line and 4 - 16Ω loads
- ✓ Built in overload short circuit protection
- ✓ Multi-stage thermally cued fan cooling
- ✓ 2U 19" rack mount option (part no. A 4376)
- ✓ Optional alert/evac module available (part no. A 4573)
- ✓ Optional remote volume wallplate (part no. A 2280B)

About Redback® Public Address Amplifiers

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

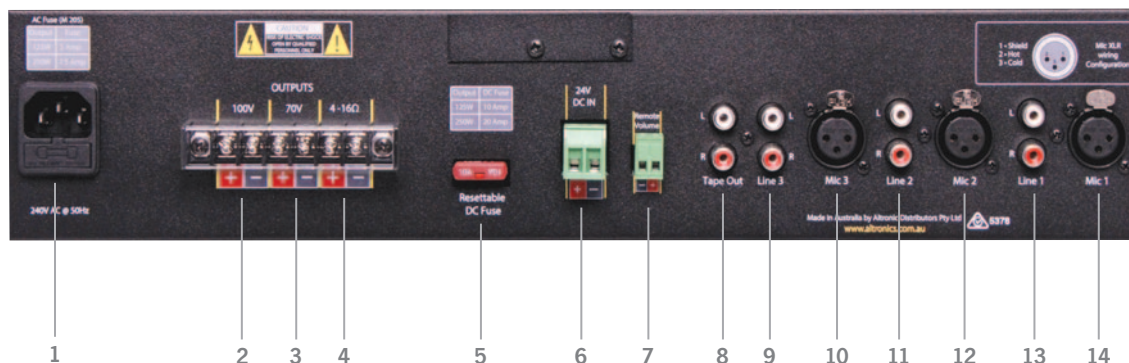
Each unit is covered by a comprehensive 10 year parts and labour warranty. Redback® offers rock solid reliability from over 30 years experience in the commercial sound industry. Redback® offer locally available servicing and parts, plus the ability to offer feedback direct to the manufacturer.

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Rear Panel



1	240V AC input	6	24V DC terminals	11	RCA stereo input (line 2)
2	100V line terminals	7	Remote volume terminals	12	XLR 3 pin balanced (mic 2)
3	70V line terminals	8	RCA tape out	13	RCA stereo input (line 1)
4	4-16Ω terminals	9	RCA stereo input (line 3)	14	XLR 3 pin balanced (mic 1)
5	10A DC blade fuse	10	XLR 3 pin balanced (mic 3)		

Specifications

Electrical

Power output:	125 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.
Input frequency response:	50Hz - 12kHz, -3dB
Mic 1-3 sensitivity:	3mV balanced
Line 1-4 input sensitivity:	300mV
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:	7.5A AC, 20A DC fuses
VOX muting:	60dB below rated output
LED indicators:	Overload, Power

Controls

Volume 1:	Controls mic 1 / line 1
Volume 2:	Controls mic 2 / line 2
Volume 3:	Controls mic 3 / line 3
Local music volume:	line 4
Bass:	±10dB @ 100Hz
Treble:	±13dB @ 10kHz
Power:	On/Off switch

Mechanical

Dimensions:	483W x 330D x 88H mm
Weight:	≈19.5kg

Connections

Inputs	Mic 1-4	Line 1-4
	3 pin XLR fem. (balanced)	Stereo RCA line 1-3 3.5mm jack line 4
Outputs	Speakers	Tape Out
	Screw terminals for 100V line, 70V line and 8-16Ω	Stereo RCA

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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