

**Product Guide****A 4041** 60W 100V Public Address Amplifier

# A 4041 60W 100V Public Address Amplifier



## Overview

Designed to meet the requirements of medium sized professional public address installations, delivering an output power of 60W. Features include, VOX muting, four balanced XLR microphone inputs, four line RCA inputs, bass and treble controls, enabling a diversity of installation applications, including schools, public halls, workshops and sporting complexes.

Powered by either 240V AC mains or 24V DC permitting battery backup operation during mains power failure. Master volume can be controlled remotely via figure 8 cable and the A 2280A wall control unit or 1K potentiometer (part no. R 2202).

### High Performance

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

The A 4041 features in-built thermal overload shutdown, over current and short circuit protection for reliable operation in all conditions.

### VOX Muting Functionality

In-built VOX circuit allows telephone paging via line inputs one or two (selectable internally). When paging via the telephone, all other line inputs are muted. This can be used to mute background music during an announcement. When VOX is selected on input 1, muting will occur on inputs 2 and 3. If VOX is selected on input 2 muting will occur on input 3 only.

## Key Features

- ✓ 4 Balanced microphone inputs with phantom power
- ✓ 4 Stereo line inputs
- ✓ 19" Rack mount kit included
- ✓ 240V AC or 24V DC operation
- ✓ VOX muting
- ✓ Tape output RCA sockets
- ✓ Bass and treble tone controls
- ✓ Output terminals for 100V line, 70V line and 8 - 16Ω loads
- ✓ Built in overload short circuit protection
- ✓ Optional alert/evac module (part no. A 4573)
- ✓ Optional remote volume wallplate (part no. A 2280A)
- ✓ Australian designed & assembled

## About Redback® Public Address Amplifiers

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

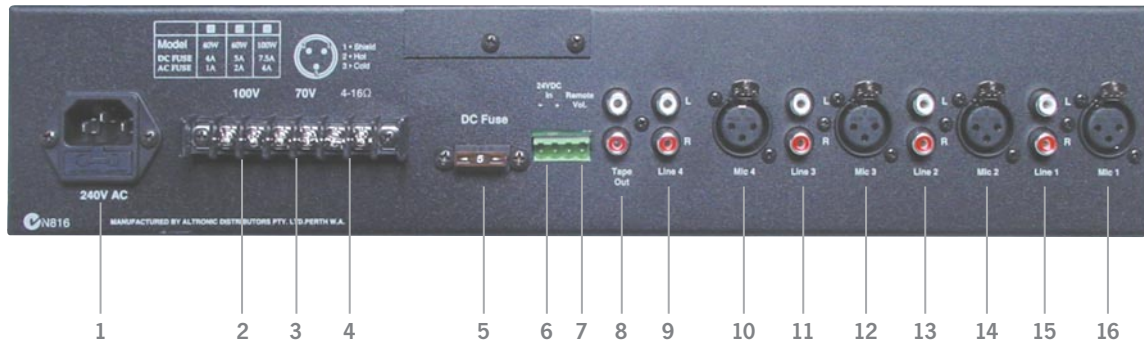
Each unit is covered by a comprehensive 10 year parts and labour warranty. Redback® offers rock solid reliability from over 30 years experience in the commercial sound industry. Redback® offer locally available servicing and parts, plus the ability to offer feedback direct to the manufacturer.

## Product Guide

### A 4041 60W 100V Public Address Amplifier



#### Rear Panel



1	240V AC input	7	Remote volume input	13	RCA stereo input (line 2)
2	100V line terminals	8	RCA stereo tape out	14	XLR 3 pin balanced (mic 2)
3	70V line terminals	9	RCA stereo input (line 4)	15	RCA stereo input (line 1)
4	4-16Ω terminals	10	XLR 3 pin balanced (mic 4)	16	XLR 3 pin balanced (mic 1)
5	5A DC blade fuse	11	RCA stereo input (line 3)		
6	24V DC input	12	XLR 3 pin balanced (mic 3)		

#### Specifications

##### Electrical

Power output:	60 watts RMS
Distortion:	< 0.5% @ 1kHz
Output line:	100V, 70V or 8 - 16Ω
Signal to noise ratio	Typically 75dB below rated output.
Freq. response mic :	50Hz - 10kHz, -3dB
Freq. response line:	60Hz - 15kHz, -3dB
Mic 1-4 sensitivity:	1.5mV balanced
Line 1-4 input sensitivity:	410mV
Power supply:	240V AC or 24V DC
Current draw:	220mA standby, 4.5A full load
240V AC power:	IEC power connector
24V DC power	Screw terminal
Protection:	2A AC, 5A 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
Volume 4:	Controls mic 4 / line 4
Bass:	±10dB @ 100Hz
Treble:	±13dB @ 10kHz
Power:	On/Off switch

##### Mechanical

Dimensions:	423W x 225D x 88H mm
Weight A 4041:	≈7.4kg

#### Connections

Inputs	Mic 1-4	Line 1-4
	3 pin XLR fem. (balanced)	Stereo RCA
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 4041

The amplifier shall have a power output of 60 watts RMS. The unit shall have 4 microphone input channels each consisting of 3 pin XLR balanced socket and 4 line inputs consisting of dual RCA sockets. Phantom powering shall be available for each microphone input. Microphone inputs shall, if required, be able to bypass the tone controls via an internal jumper. 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 and line input. Terminals shall be provided on the rear panel to allow remote master volume control. Tone controls shall provide 10dB cut or boost at 100Hz and 13dB cut or boost at 10 kHz.

The unit shall operate from 240V AC or 24V DC and each will be fuse protected. Power indication shall be indicated by a front panel mounted LED.

The amplifier shall be capable of delivering full power of 100V RMS into a 250 ohm (60W) inductive load with less than 0.5% distortion measured at 1 kHz and with a signal to noise ratio of less than 75dB below rated output. Overload protection shall be provided by thermal sensor and fault condition indicated by a front panel mounted LED. The unit shall be capable of being fitted with an alert, evacuation and chime tone generator. Speaker outputs shall be 100V and 4-16 ohms provided via screw terminals. Dual tape output RCA sockets shall be provided on the rear panel. The unit shall have internal VOX muting microphone 1 over both line inputs or microphone 2 over both line inputs.

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

The mixer amplifier shall be a REDBACK model A 4041.