

Product Guide**A 4250** 100W 100V Public Address Power Amplifier

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**Overview**

Utilising only 1RU of rack space, the A 4250 Redback power amplifiers has a power rating of 100W RMS. It is perfectly suited to installations requiring individual zone amplifiers.

Inputs

The input configuration of one 3-pin XLR and dual RCA sockets offers a great degree of flexibility for your system design. The 3-pin XLR, with phantom power, can be adjusted for either balanced mic level (2mV) or balanced line level (2V) via a rear mounted trimpot. The RCA sensitivity is DIP switch adjustable for 100mV or 1V.

Input one consists of a 3-pin XLR which can be set for either balanced mic level (3mV) or balanced line level (2V), adjusted via a rear mounted trimpot.

Line inputs consist of a set of dual RCA sockets on the rear panel.

Power Flexibility

The A 4250 operates on 240V AC or 24V DC for battery backup operation.

Protection Features

The circuit includes protection features in case of output over voltage, over current and over temperature. All are self resetting once the fault condition is removed. Visual indication via front panel LEDs display amplifier status at all times.

Fitted with standard M205 4A fuse on both the AC 240V input and a 10A blade fuse on the 24V DC rail.

Key Features

- ✓ **Australian made**
- ✓ **10 year manufacturer warranty with local product support**
- ✓ Balanced mic or line input
- ✓ On demand fan cooling
- ✓ Variable input sensitivity
- ✓ 240V AC or 24V DC operation
- ✓ Overload limiting
- ✓ Over temperature shutdown protection
- ✓ Phantom power

About Redback® Public Address Amplifiers

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

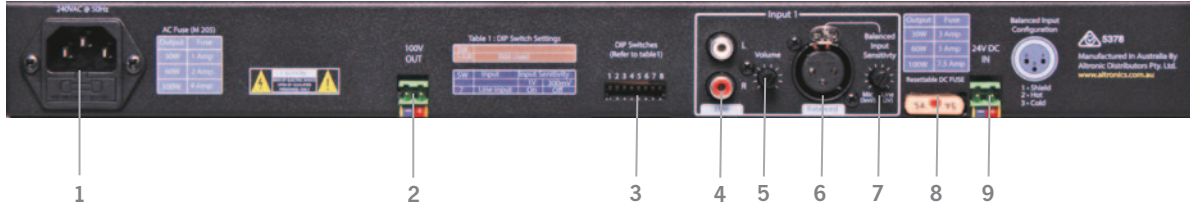
Each unit is covered by a comprehensive 10 year parts and labour warranty. Redback® offers rock solid reliability from over 30 years experience in the commercial sound industry. Redback® offer locally available servicing and parts, plus the ability to offer feedback direct to the manufacturer.

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Rear Panel



1	240V AC input	4	RCA Input 1 stereo line input	7	Balanced input sensitivity adjust
2	100V line terminals	5	Input 1 volume adjust	8	DC Blade fuse 10A
3	Option configuration DIP switches	6	XLR 3 pin balanced mic input	9	24V DC input

Specifications

Electrical

Power output:	100W
Distortion:	< 0.5% @ 1kHz
Output line:	100V
Signal to noise ratio:	Typically > 80dB
Frequency response:	50Hz - 15kHz, -3dB
Mic sensitivity:	XLR balanced 2mV to 2V
Line sensitivity:	RCA 100mV/1V
240V AC power:	IEC power connector
24V DC power:	Pluggable screw terminals
Power supply:	240V AC or 24V DC
Current draw:	160mA Standby, 8.5A Full @ 24V dc
Protection:	4A AC and 10A DC fuse
Indicators:	Power, Output limiting, Over temp.

Controls

Mic/Line:	Volume, Sensitivity
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Mechanical

Dimensions:	483W x 210D x 44H mm
Weight:	≈6.0kg

Architect Specifications

The amplifier shall have a power output of 100 watts RMS. The unit shall have a balanced 3 pin XLR line input. Frequency response shall be 50Hz – 15 kHz (-3dB).

A volume control shall be positioned on the rear panel. The front panel shall have a LED power, over temperature and output limiting indicators.

The unit shall operate from 240V AC or 24V DC and each shall be individually fuse protected. The unit shall have automatic output limiting in event of overload or overdrive. The unit shall have automatic shutdown and restart in the event of overtemp condition.

The amplifier shall be capable of delivering full power of 100V RMS into a 100W inductive load with less than 0.5% distortion measured at 1 kHz and with a signal to noise ratio of less than 80dB below rated output. The speaker outputs shall be 100V provided via screw terminals. The output voltage shall be limited to 100V RMS to provide speaker protection.

The amplifier shall be housed in a high quality 1RU metal chassis suitable for rack mounting.

The amplifier shall be a REDBACK model A 4250.

Connections

Inputs	Mic	Aux
	3 pin XLR female (balanced)	RCA Stereo
Outputs	Speakers	
	Screw terminals for 100V speakers	



Made in Australia by Altronic Distributors Pty. Ltd.

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