

## A 4285C - Phase5® 250W 100V PA Mixer Amplifier



### Overview

Designed in conjunction with Australia's leading PA professionals to cater for the needs of multi-source installations. This redesigned unit offers the ability to monitor amplifier status via the colour LCD screen, plus custom labelling of inputs. The A 2711 optional USB & SD card module provides music playback when fitted.

Engineered for professional PA installations, the A 4285C delivers 250W RMS power. Frequency response extends from 50Hz to 15kHz  $\pm 3$ dB at a total harmonic distortion (THD) of less than 0.5% @ 1kHz. Voice/Vox muting, including three levels of input priority, bass and treble controls and phantom powering capability enable unparalleled flexibility for a wide scope of applications such as schools, shopping centres, workshops, mine sites and office buildings. Operates from 240V AC mains or 24V DC permitting battery backup operation during mains power failure. Output can be 100V line, 70V line or low impedance (4 - 16 $\Omega$ ) loads.

#### LCD status readout

Indicates input and output levels, amplifier status; including heat-sink temperature, overload and over current conditions. 240V AC or 24V DC operation. Also allows custom labelling of input sources via USB keyboard.

#### Flexible input configuration

Each input can be configured for either balanced microphone or line use. A dip switch is supplied for each input providing the following features:

- Phantom power on/off
- Mic or line
- 100mV or 1V
- Vox muting on/off (priority)

#### Three levels of priority

Priority selection is by a dip switch on the rear panel: Input 1 over 2-6, input 2 over 3-6 and input 3 over 4-6.

#### Protection & Limiting

In the event of an overload, the output current is limited by the internal circuitry, thus reducing the output voltage at the speaker terminals. Input limiting restricts the output to 110V regardless of input level. This prevents dangerously high voltages from damaging the loudspeaker. The circuit includes thermal overload shutdown, over current and overload protection plus fuses on both AC and DC supply rails.

### Key Features

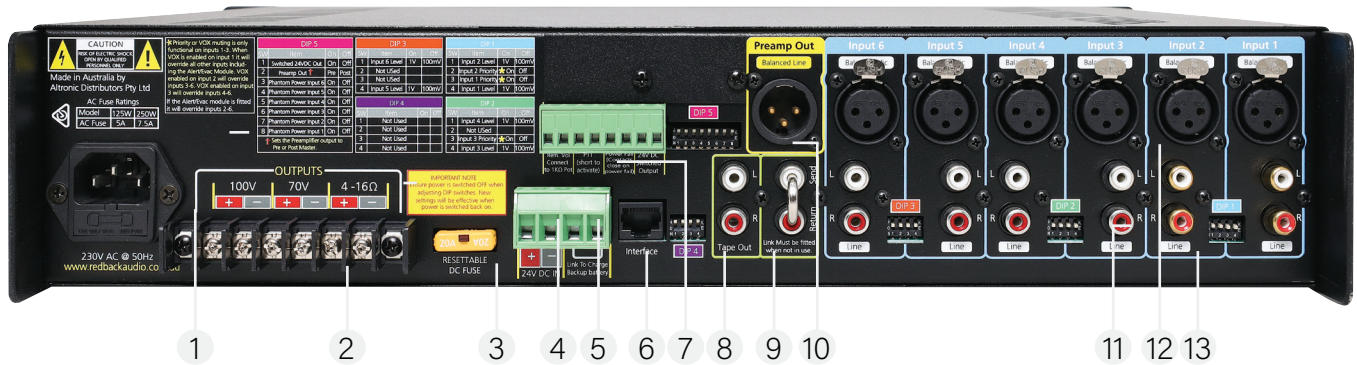
- Australian made
- 10 year manufacturer warranty with local product support
- VU meter on LCD screen
- Output peak limited
- Multi-stage thermally cued fan cooling
- 2U 19" rack mount
- Record out terminals
- Remote volume facility
- Optional alert, evac & chime tone generator (A 4573)
- Vox activated 24V DC output
- 6 inputs with 3 pin XLR or 2 x RCA sockets
- Phantom powering available on all inputs
- Three levels of priority
- Option for mic/line to operate vox muting on inputs 1 to 3
- Push to talk (PTT) terminals on rear panel
- Bass and treble tone controls
- Power amp line out connector
- Terminals for 100V line, 70V line and 4 - 16 $\Omega$  loads
- 240V AC or 24V DC power operation
- Thermal & fuse overload protection
- Built in short circuit protection
- 300mA trickle charge facility for 24V DC batteries
- Master volume can be configured as pre or post line out

### 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 45 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 24V DC battery charge link terminal   | 8 Tape Out RCA       | 11 Input 1 DIP Switch Selections |
| 2 100V/70V/4-16Ω line terminals | 6 RJ45 Interface port   | 9 Send / Return RCA  | 12 Input 1 Balanced 3 Pin XLR    |
| 3 10A DC resettable blade fuse  | 7 a. Remote Volume Control Contacts<br>b. PTT Contacts<br>c. Power Fail Contacts<br>d. 24V DC Switched Output | 10 Preamp XLR Output | 13 Input 1 Line Stereo RCA       |
| 4 24V DC input terminal         |   |                      |                                  |

## Specifications

Electrical	
Power output	250 Watts RMS
Distortion	< 0.5% @ 1kHz
Output line	100V, 70V or 4-16Ω
Signal to noise ratio (Mic input)	Typically 75dB below rated output.
Signal to noise ratio (Line input)	Typically 81dB below rated output.
Line input	600Ω balanced, 0dBV
Frequency response (Mic input)	50Hz - 12kHz, -3dB
Frequency response (Line input)	50Hz - 15kHz, -3dB
Input sensitivity	100mV-1V (line), 3mV balanced (mic)
Power supply	240V AC or 24V DC
Current draw	350mA standby, 17A full load @ 24V DC
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	Power, fault, all other indicators on LCD

Controls	
Master Volume	Controls all output level
Line Inputs	Volume
Bass	±10dB @ 100Hz
Treble	±10dB @ 10kHz
Power	On/Off switch

Mechanical	
Dimensions	483W x 380D x 88H mm
Weight	(410D inc. handles) ≈ 19.5kg

Optional Add Ons
A 2711 MP3 USB/SD Audio Module
A 4573 Alert/Evac Tone Module
A 2280B Remote Volume Wallplate

## Connections

Inputs	Mic 1-6	Line 1-6	Send/Return
	3 pin XLR female (balanced)	Stereo RCA	RCA sockets
Outputs	Speakers	Tape Out	Preamp Out
	Screw terminals for 100V line, 70V line and 8-16Ω	Mixed mono Dual RCA sockets	3 pin XLR male (balanced), RCA socket

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