



## Features

- Extremely compact, large scale integration
- Motherboard construction completely eliminates hard wiring
- Integral status display
- High reliability, simplifies service
- Test "tick tone" which can be routed to individual amplifier slots
- Test "tick tone" volume control
- Extensive fault/operation status reporting LD's to provide diagnostic detail concerning power supplies and operating systems.

## VA300/CAGE Audio Amplifier Shelf

### Description

BARTEC VODEC VA300/CAGE is a 6 unit high standard 19 inch rack mount low profile assembly designed to carry up to EIGHT BARTEC VODEC VA300+ plug in/out Public Address Alarm System (PAGA) amplifier modules.

The unit comprises of a robust extruded lightweight alloy frame enclosure and motherboard "back plane" printed circuit card equipped with eight slots. The back plane is fitted with eight gold plated indirect edge connectors, one per slot, which obviate troublesome hard wired connection looms and allow rapid plug in/out amplifier capability to assure speed of service. The back plane carries an on board non volatile processing sub-system that enables eight amplifiers to substitute any one of the other seven VA300/CAGE slots in the event of on-line amplifier trouble. Configuration also allows slot four to support hot-standby amplifier execution in this case amplifier number 4 is hot-standby for amplifier 1 - 3 whilst amplifier number 8 is a hot-standby for slot 5 - 7.

An auxiliary supervisory group fault report output is available to extend VA300/CAGE amplifier module warnings to the host Public Address management hardware.

The VA300/CAGE processor is fitted in a special shock resistant PLCC socket enabling engineers to exchange for tailored project specific micro chip configurations eliminating costly hardware modifications/bespoke wiring. Each slot is allocated zone selection switches, which enables the engineer to quickly and conveniently pre determine broadcast area assignment for each respective amplifier.

Connection to/from the VA300/CAGE is via locking plug and socket insulation displacement flat ribbon cables which facilitate rapid complete removal of the frame from the rack system in the event of maintenance requirement.

VA300/CAGE is fitted with a display window that provides the engineer with immediate and convenient indication of critical conditions within the VA300/CAGE sub-system. Status information includes DC supplies and associated proactive devices, fan control/condition, hot-standby amplifier and fault report supervisory.

VA300/CAGE configuration requires no special tools or PC connection and data is retained indefinitely with or without power supply applied. VA300/CAGE/C allows the engineer to issue tick tone on an amplifier by amplifier basis.

### Technical Data

#### Supply Input

DC 48 V unregulated supply

#### Output

DC 6 A max. per slot

#### Input

Eight 100 Volt (70 volt) line output

#### Fan control

Fan initiate and supervisory for one off VA300/FAN module

#### Ambient noise sense (ANS)

Eight ANS microphone input (one per amplifier slot)

#### Host management

22.5 kHz supervisory control (for automatic amplifier testing) group fault reporting, cage to host. Fan from host (i.e. fan initiated when alarm tones are broadcast)

#### Dimensions

483 mm wide (19" rack mount)  
267 mm high (6 units)  
245 mm deep

#### Colour

Natural anodised alloy

#### Weight

without amplifier 3.44 kg

#### Temperature

-20 °C to +50 °C

#### Humidity

Maximum 80 % non condensing