zenitel

DATASHEET



1200202000

V2000

PAVA 2000W Power Amplifier Mainframe (0 amps Pre Installed)

- HIGH POWER DENSITY UP TO 2000 W / 100V
- 10 MODULAR AMPLIFIER SLOTS
- 2U / 19” COMPACT HOUSING
- AN INTEGRATED PART OF THE ASL EN 54-16 CERTIFIED PAVA SYSTEM
- INDIVIDUALLY HOT-SWAPPABLE AMPLIFIER CARDS
- COMBINES AMPLIFICATION AND EN 54-4 CHARGER
- VERY HIGH EFFICIENCY & LOW STANDBY CURRENT
- STANDBY AMPLIFIER OPTIONS

Public Address | Voice Alarm | Commercial Audio | Civil Defence Approval | EN54 | EN 54 Certified

Description

ASL’s V2000 is a compact and robust solution for Voice Alarm Amplification. This mainframe is specifically engineered to accommodate ASL's modular D-series amplifier and LSZDC interface cards. Controlled by ASL's VIPEDIA Audio Router, this 2U 19” rack-mount frame supports up to 2000W distributed across a maximum of 10 individual amplifier cards. Connectivity to the Audio router is facilitated through both ethernet for control/monitoring and copper hard-wired cables for line-level audio, which provides integrated fail-safe redundancy in case of frame processor failure.

For larger installations or those requiring extended availability, multiple V2000 units can be strategically deployed across separate PAVA nodes, offering interleaved circuits. Up to sixty-three V2000 frames can be hosted on a single VIPEDIA audio router, thereby ensuring considerable scalability and efficiency in system design.

Voice Alarm applications

In adherence to industry standards, the V2000 solution is EN 54-16 certified as part of the ASL PAVA system, incorporating an integrated battery charger compliant with EN 54-4 standards. This charger, designed for use with multiple 12 V VRLA batteries to provide 24 V DC, can recharge up to 80 Ah in full compliance with the EN 54-4 re-charge requirements, thereby eliminating the need for an external charger which leads to a streamlined installation and minimises the cabinet space requirements. Moreover, the V2000 offers comprehensive monitoring functionality covering processors, power supplies, amplifiers, and circuits. Detected faults are promptly reported back to the host Audio Router and categorized in compliance with the requirements of the EN 54-16 standard.

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Modular Design

The V2000 mainframe supports ASL's D-Series amplifier, which are available in two variants: D500 (max power rating 500W) and D150 (max power rating 150W). These lightweight transformerless modules are hot-swappable and software configurable, allowing for flexible allocation of amplifier power within the mainframe's 2000W total capability, optimizing both space and power efficiency. The amplifier inputs and outputs, are connected via the LSZDC interface modules, with options for single or isolatable A/B dual circuit output feeds. Additionally, the LSZDC modules may be configured to monitor the following system parameters: Input signal (0dBu nom), amplifier functionality, loudspeaker line integrity (using DC, Impedance or Loop-Back surveillance techniques). Standby amplification can either be configured as self-contained within each individual V200 mainframe or housed in a separate V2000 mainframe, in which case the optional V2000-STBY module will be required.

Power Supply

A multi-functional power supply, compatible with both 230V and 110V AC operation, combined with a secondary 24V DC battery-backed supply, ensures adaptability to various scenarios.

Ease of diagnostics

The V2000 incorporates LEDs to indicate the mainframe and amplifier status, facilitating quick visual assessment of the amplifier status and the identification of any functional
issues. Additionally, unit information and operational status can be accessed via IP-based tools, thereby streamlining troubleshooting and maintenance processes.

Accessories



MDIST-V2000

Mains Distribution unit for V2000

Item Number: 1200511000

Used With

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from site

D500

PAVA 500W Power Amplifier Module for the V2000 / INTEGRA

Item Number: 1200202500

from site

D150

PAVA 150W Power Amplifier Module for the V2000 / INTEGRA

Item Number: 1200202150



LSZDC

PAVA Amplifier Interface Module for the V2000 / INTEGRA

Item Number: 1200540000

V2000-STBY

PAVA Amplifier Standby Interface Module for the V2000

Item Number: 1200542000



VIPEDIA-12-PRO

PAVA Audio router with network card - Dante Enabled

Item Number: 1200100121



VIPEDIA-12-NET

PAVA Audio router with network card

Item Number: 1200100012



RAK-FAN-01

Fan Shelf 1U for the V2000

Item Number: 1200542001



RAK-DUCT-01

Cooling Duct 1U for the V2000

Item Number: 1200542002

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