

- Up To 2000W in 2U / 19" Housing
- EN54-16 Compliant
- Transformerless 150 & 500W Modules
- DC / Impedance / Loop Loudspeaker Monitoring
- Integrated EN54-4 Battery Charger
- Very High Efficiency & Low Standby Current
- Hot Swappable Amplifiers

V2000 & D-Series Amplifiers



The V2000 Voice Alarm Amplifier Mainframe is EN 54-16 compliant and provides the housing, control, and power supplies for up to ten D Series power amplifier modules in a 2U enclosure. Two D Series amplifier module types are available, with a maximum power rating of 500W (D500) or 150W (D150). These are lightweight transformerless amplifier modules whose output power is configurable in software from 25W up to their maximum rating. The ability to configure the output power on each module enables optimum assignment of amplifier power within the overall capacity of mainframe and hence a compact system design.

The LSZDC amplifier interfaces provide each amplifier module with 0dB analogue audio inputs, dual isolatable A and B loudspeaker circuit and either DC, Impedance or Loop Return loudspeaker line surveillance. Standby amplification can be provided internally within the V2000, or by means of an external standby amplifier. Use of an internal standby amplifier requires no standby wiring to be made. Use of an external standby amplifier requires the optional V2000-STBY module.

The mainframe includes a mains power supply, designed to operate on 230V, 50Hz / 60Hz AC mains supply, while battery backup is provided by means of a 24V DC power input.

The integrated EN 54-4 compliant battery charger provides enough current to charge the battery system for a fully loaded 2000W system, including one VIPEDIA-12, avoiding the need for an external battery charger.

The configurable output power capability of the D500 and D150 amplifier modules enables very flexible use of the mainframe, with reduced mainframe count, less quiescent power requirement, and improved environmental performance compared with traditional amplifier designs. Example applications are:

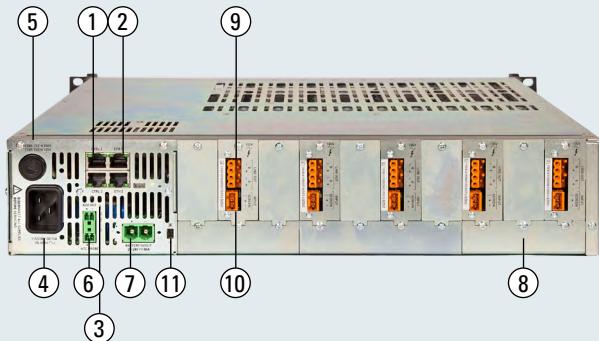
- Ten off 150W amplifier = 1 x V2000 mainframe and 10 x D150 amplifier module.
- Quad 500W amplifier = 1 x V2000 mainframe and 4 x D500 amplifier module.
- Mix-and-match options such as four 50W zones, two 300W zones, and two 500W zone all driven from a single V2000 mainframe, including a standby amplifier.

Technical Specification

Front and Rear Panel



1. Amplifier Indication LEDs (per amplifier)
2. Mainframe Indication LEDs (per frame)



1. RS485 & Audio Monitor
2. Dual Ethernet Ports
3. Status LED
4. Mains Power Input
5. Mains Fuse
6. DC PSU Output & Battery Temperature Sensor
7. DC Power Input & Battery Charger Output
8. V2000-STBY Slot (Not fitted)
9. 100V A & B Loudspeaker Amplifier Output
10. Amplifier Audio Input
11. Earth Lift Switch

Power & Heat

AC Supply Voltage.....	230V (+25% / - 16%)
AC Supply Frequency.....	50 / 60Hz
DC Supply.....	21-28 V
Quiescent Current80mA ¹
Inrush Current (max)	21A
Current Consumption (tone input signal).....	11A
Current Consumption (speech input signal).....	5A

@ 2000W load, 10no D500 amplifiers

¹No amplifiers, 24V supply

Environmental

Operating.....	-10°C to +55°C ²
Storage.....	-20°C to +55°C
Humidity Range.....	0% to 93% non-condensing
Ingress Protection.....	IP20

²With RAK-FAN-01 fans fitted. Otherwise 40°C. Note that fans are required in certain configurations. See ASL design guide for more information.

Mechanical

Dimensions (H x W x D).....	86mm x 436mm x 425mm
Mounting.....	19-inch rack mounting (2U)
Finish.....	Low Smoke / Zero Halogen
Colour.....	Silver & Black
Weight (frame only).....	7.7 kg

