

## D150 & D500



- CLASS D TRANSFORMERLESS AMPLIFIERS
- V2000 AMPLIFIER MAINFRAME COMPATIBLE
- SOFTWARE CONFIGURABLE MAXIMUM POWER
- FAULT INDICATION LED PER AMPLIFIER
- HIGH EFFICIENCY & LOW STANDBY CURRENT
- 100 / 70 / 50 V OUTPUT

### OVERVIEW

D150 and D500 class D transformerless amplifiers provide 100, 70 or 50V audio output for distributed loudspeaker systems. The amplifiers are compatible with the V2000 amplifier mainframe and LSZDC dual line surveillance interface module. The maximum output power is user configurable from 25W to 150W (D150) and from 25W to 500W (D500). Up to 10 D150 and D500 amplifiers modules can be housed within a single V2000 amplifier mainframe.

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



## SPECIFICATION

### Quiescent Current

Module ..... 16mA

### D500 Amplifier Modules

Amplification ..... Transformerless Class D

Power output @ 100V ..... 25W to 500W<sup>1</sup>

Power output @ 70V ..... 25W to 350W<sup>1</sup>

Power output @ 50V ..... 25W to 250W<sup>1</sup>

Efficiency ..... >=83%

Measured at 100V rms sine into 20 Ohms load

Frequency response ..... 100Hz to 20kHz +/- 3dB

THD ..... < 0.5%

Output Noise ..... better than 85dB below 100V

### Mechanical

Module Weight ..... 0.8kg

### D150 Amplifier Modules

Amplification ..... Transformerless Class D

Power output @ 100 / 70 / 50V ..... 25W to 150W<sup>1</sup>

Efficiency ..... >=86%

Measured at 100V rms sine into 66.67 Ohms load

Frequency response ..... 100Hz to 20kHz +/- 3dB

THD ..... < 0.5%

Output Noise ..... better than 85dB below 100V

### Environmental

Operating ..... -10°C to +55°C<sup>2</sup>

Storage ..... -20°C to +55°C

Humidity Range ..... 0% to 93% non -condensing

Ingress Protection ..... IP20 as part of V2000

<sup>1</sup> Specified output power can be delivered when the amplifier mainframe is being powered from either mains or 24V battery supplies.

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



This equipment is designed and manufactured to conform to the following EU Directives:

Electromagnetic Compatibility (EMC): 2014/30/EU

Low Voltage: 2014/35/EU

Restriction of Hazardous Substances (RoHS): 2011/65/EU

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Assessed to ISO 9001

LPCB Cert No: C1043