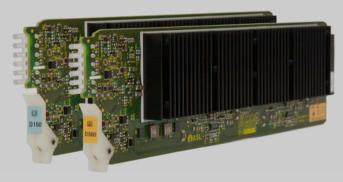


D150 & D500



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

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
	25W to 500W ¹
	25W to 350W ¹
	25W to 250W ¹
	>=83%
Measured at 100V rms sine into 20 Oh	nms load
Frequency response	100Hz to 20kHz +/- 3dB
THD	< 0.5%
Output Noise	better than 85dB below 100V

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Module Weight	0.	8	k	c	1

D150 Amplifier Modules

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Amplification	Transformerless Class D
Power output @ 100 / 70 / 50V	25W to 150W ¹
Efficiency	>=86%
Measured at 100V rms sine into 66.67 Oh	nms load
Frequency response	100Hz to 20kHz +/- 3dB
THD	< 0.5%
Output Noise	petter than 85dB below 100V
Environmental	

Environmental

Operating	10°C to +55°C ²
	20°C to +55°C
Humidity Range	0% to 93% non -condensing
Ingress Protection	IP20 as part of V2000

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

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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

Manufacturer

Application Solutions (Safety and Security) Limited Unit 17 Cliffe Industrial Estate Lewes - East Sussex BN8 6JL - UK

Tel: +44(0)1273 405411 www.asl-control.co.uk Fax: +44(0)1273 405415



Assessed to ISO 9001

LPCB Cert No: C1043

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