



Hearing Loop Driver



Applications

Conference/Board Rooms



Small Classrooms



Waiting and Reception Areas



PRODUCT INFORMATION

The V12a is a highly efficient and compact hearing loop driver. It is a constant current, dual output with integral phase shifter for phased array configuration, suitable for smaller venues such as classrooms, and conference spaces.

The driver has a Class-D output stage and an audio subsystem built around an advanced Digital Signal Processing (DSP) core. Combined with a powerful CPU to ensure peak performance, the V12a uses cutting edge technology to achieve first-class speech and music reproduction.

Features

- › 2 X 90 degrees phase shifted
- › DSP controlled Automatic Gain Control (AGC) and High Frequency Compensation for metal loss.
- › Integrated protection circuits with temperature, voltage, short circuit and DC detection
- › Class-D output stage capable of delivering 5A_{RMS} @ 12V_{RMS}
- › Sleep mode
- › True constant current output stage
- › Continuous self-testing
- › Simple user interface
- › Compact half-width 1RU chassis



contacta 

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Physical Data

Dimensions	Height - 1.65" Width - 7.80" Depth - 5.90"
Weight	2.2 lbs
Construction	Mild Steel
Finish	Black Powder Coated

Accessories

- › 1RU Rackmount Shelf
- › Flat Copper Wire
- › RX20 Loop Listener
- › Field Strength Meter (FSM)

Standards

- › BS EN 55103-1: 2009 (EMC emissions)
- › BS EN 55103-2: 2009 (EMC immunity)
- › FCC class "B" (EMC emissions)
- › ICES 003
- › UL Canada and US Power Supply using less than 100 watts

Technical Data

Power	100W 24Vdc 4.17A External PSU (PS-60) Class 6 External PSU (100V - 240V AC 50Hz - 60Hz)	
Inputs	1 X Line XLR or 3.81mm Euro-block [optimized for levels above -10dBV to 0dBV]	
	1 X Microphone (12V phantom power via 680 Ohms) [optimized for levels above -45dBV]	
Loop Output Characteristics	Output Voltage	12Vrms (33.94Vpk-pk) @ 5A _{RMS} (14.14Vpk-pk)*
	Output Current	5Arms (14.14Vpk-pk) up to 300 seconds
	Loop Connector	5.08mm Euro-block
Audio System	Frequency Response	80Hz to 6.5kHz
	Distortion	THD+N <0.3% (-50.5dB) Full current both outputs driven
	AGC	Peak detecting
	HF Comp	7 optimized stages
Display & Control	Display	LED Backlit LCD display
	Control	Single rotary control
Monitoring and Protection	Main Display	Open circuit loop (DCR measurement)
		Loop ground fault
	Front Panel LED	Output voltage clipping
	Cooling	Internal heatsinks with thermal protection

* Note 1: Z=2.4 Ohms (212uH + 1.096 Ohms @ 1.6kHz) Note 2: 1% (-40dB distortion)