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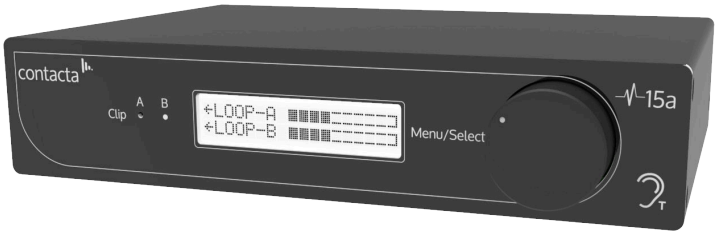

V15a Dual Output Hearing Loop Driver

V15A-UK / V15A-EU / V15A-AUS / V15A-USJ

Our highly efficient and compact V15a is a constant current, dual output hearing loop driver, with integral phase shifter for phased array configuration. The V15a is suitable for small and medium sized facilities and venues.

It has Class-D amplifier output stages and an audio subsystem built around an advanced DSP core. Combined with a powerful CPU to ensure peak performance, the V15a uses cutting edge technology proven in the pro audio world to achieve life-like speech and first-class music reproduction.

Features

- DSP controlled automatic gain control and high frequency compensation for metal loss
- 2 X 90° phase shifted (DSP controlled) Class-D amplifier output stages capable of delivering 5A$_{RMS}$ @ >15V$_{RMS}$
- Ultra-efficient power utilisation (up to 90% efficient)
- True constant current output stage
- Simple user interface
- Backlit LCD display
- Sleep mode
- Continuous self-testing
- Integrated protection circuits with temperature, voltage, short circuit and DC detection
- Compact half-width 1U chassis (compatible 6U Rack Cabinet available upon request)

Components

- V15a Hearing Loop Driver
- PS-60 Power Supply

Driver Area Coverage	Area		
	1:1	1:2	1:3
Phased array (no metal loss)	625.00m²	684.50m²	705.33m²
Phased array (medium metal loss)	289.00m²	288.00m²	408.33m²

All phased array loop areas calculated under the following conditions: Area at maximum driver current without voltage clipping at 1.6KHz * 3 metre segment width * calculated with 25mm x 0.1mm flat copper tape * loop cable installed on floor * listening plane 1.2m * medium metal loss = 6dB

Applications

Suitable for small and medium sized facilities, such as:

- Meeting rooms
- Classrooms
- Care & nursing rooms
- Waiting rooms
- Lecture halls

Voltage and Current

- >15Vrms @ 5Arms

Standards

- BS EN 55103-1: 2009 (EMC emissions)
- BS EN 55103-2: 2009 (EMC immunity)
- FCC class "B" EMC (emissions)
- ICES-003
- IEC 60118-4 (in correct installations)
- IEC 62489-1

Accessories

- Single V-Series Mounting Bracket [MBR-V1]
- Dual V-Series Mounting Shelf [MBR-V2]
- Blanking Plate for Dual V-Series Mounting Shelf [MBR-VBLANK]
- 6U Rack Cabinet [IL-AC-RACK-19]

Talk to us now:
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Physical Data

Dimensions	Height – 42mm (1.65") Width – 196mm (7.80") Depth – 132mm (5.20") [150mm (5.90") incl. XLR and control dial]
Weight	978g (2.15lbs)
Construction	Mild Steel
Finish	Black Powder Coated

Technical Data

Power Supply	100W 24Vdc 4.17A via External PSU (PS-60) Class 6 External PSU (100V-240V AC 50Hz-60Hz)	
Inputs	1 X Balanced Line Level (3 Pin Euro-Block) or 1 X Balanced Line Level (XLR) [optimised for -10dBV to 0dBv]	
	1 X Mic Level (12V phantom power via 680Ω) [optimised for levels above -45dBv]	
	1 X DC Input	
Outputs	2 X Loop Output (5.08mm Euro-Block)	
Loop Output Characteristics	Voltage	15Vrms (42.3Vpk-pk) @ 5Arms (14.14Apk-pk)*
	Current	5Arms (14.14Apk-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 optimised stages
Display & Controls	Display	LED Backlit LCD display
	Control	Single rotary control
Fault 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=3Ω (265.4uH + 1.37Ω @ 1.6KHz), **Note 2:** 1% (-40dB) distortion)

Rear Connections