



V22 Single Output Hearing Loop Driver

V22-UK / V22-EU /
V22-AUS / V22-USJ

The V22 is a powerful constant current, single output hearing loop driver. It is suitable for hearing loop systems in medium to large venues for perimeter and figure-eight loop layouts. The Class-D output stage deliver enough current to handle tough loop loads.

The audio subsystem is built around an advanced DSP Core with microprocessor control. This modern driver delivers an optimal combination of efficient performance and power. It provides a high-spec and feature-rich interface which is easily controlled from the LCD display.

The built-in Line Output allows for additional V22 drivers to be chained from the first. Note: The Line Output is not phased and cannot be used to create phased pairs of V22s.

Key Features

- DSP controlled automatic gain control and high frequency compensation for metal loss
- Class-D amplifier output stage capable of delivering 12A_{RMS} @ >22V_{RMS}
- Ultra-efficient power utilisation (up to 90% efficient)
- Switchable AGC (ON/OFF)
- High Pass Filter for removal of low frequency noise
- Simple user interface
- Backlit LCD display
- Sleep mode
- Continuous self-testing
- Integrated protection circuits with temperature, voltage, short circuit and DC detection
- 1U chassis (compatible 6U Rack Cabinet available upon request)

Applications

Suitable for medium-sized facilities and venues such as:

- Meeting & conference rooms
- Lecture halls
- Places of worship
- Nursing & care homes
- Reception & waiting areas
- Gyms & sports halls
- Auditoriums & theatres

Voltage and Current

- >22 VRMS @ 12A RMS

Standards

- 2014/30/EU
- 2014/35/EU
- 2012/19/EU
- 2015/863/EU
- FCC Part 15B Class B
- ICES-003

Accessories

- 6U Rack Cabinet [IL-AC-RACK-19]
- XLR to Euroblock Adaptor Cable [CABLE-XLR-EURO]

Talk to us now:
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Physical Data

Dimensions	Height – 44.2mm (1.74") Depth – 165.4mm (6.51") Width – 432.9mm (17.04")
Weight	3.2kg (7.05lbs)
Construction	Mild Steel
Finish	Black Powder Coated



Technical Data

Power (IEC Connection)	Voltage	100V-120V /200V-240V AC (Universal auto switching)	
	Power	175W	
	Frequency	50Hz-60Hz	
Inputs	Input A / Isolated	Line	3.5mm Euro-block [optimised for -10dBV to 0dBV]
		100V	100V Line Input (Transformer isolated) 3.5mm Euroblock
		MP3	3.5mm Euroblock [Transformer Isolated, optimised for -10dBV to 0dBV]
Input B	Universal	Input B Line/Mic. (12V phantom power via 680Ω) [optimised for levels > -45dBV to -10dBV] 3.5mm Euroblock	
Loop Outputs	Output Voltage	1 x 22Vrms (62.04Vpk-pk) @ 12Arms (33.84Apk-pk)*	
	Output Current	1 x 12Arms (33.84Apk-pk) up to 300 seconds	
	Loop Connector	1 x 4 Way 5.08mm Euro-block	
Line Output	Output Voltage	1-2Vrms	
	Connector	1 x 3.5mm Euroblock	
Audio System	Frequency Response	80Hz to 6.5kHz	
	Distortion	THD+N <1% (-40dB)	
	Automatic Gain Control	Switchable (Peak detecting) on or off	
	High Pass Filter	For removal of low frequency noise	
	High Frequency Comp.	7 DSP controlled, optimised stages	
Acoustic Time Delay	10ms to 70ms adjustable in 1ms steps		
Display	LED backlit LCD display with backlight time-out		
Control	Single rotary push control		
Front Panel LED	Output voltage clipping		
Fault Monitoring / Protection	Temperature, fan speed, PSU fault, loop open, loop impedance error		

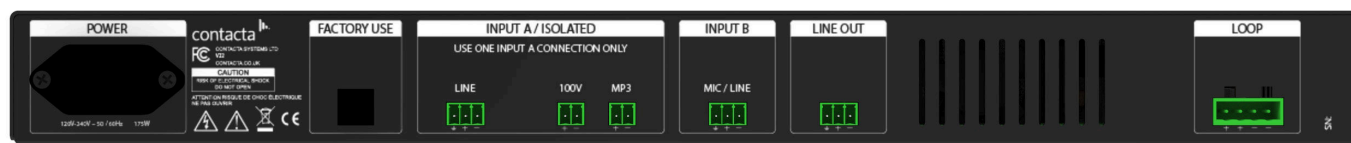
*Note 1: Z=1.83Ω (162uH +0.838Ω @ 1.6kHz), Note 2: < 1% (-40dB) distortion

Driver Area Coverage

Area		
1:1	1:2	1:3
715.0sqm	899.0sqm	961.0sqm
7692.0sqft	9672.0sqft	10338.0sqft

All perimeter loop areas calculated under the following conditions: Area at maximum driver current without voltage clipping at 1.6KHz * Loop designed to achieve 0dB in centre of the area * calculated with 25mm x 0.1mm flat copper tape * loop cable installed on floor * listening plane 1.2m

Rear Connections



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