



## 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<sub>RMS</sub> @ >22V<sub>RMS</sub>
- 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]

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## Physical Data

|              |                                                                                |
|--------------|--------------------------------------------------------------------------------|
| Dimensions   | Height – 44.2mm (1.74")<br>Depth – 165.4mm (6.51")<br>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)<br>[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 |                                                    |                                                                                                             |

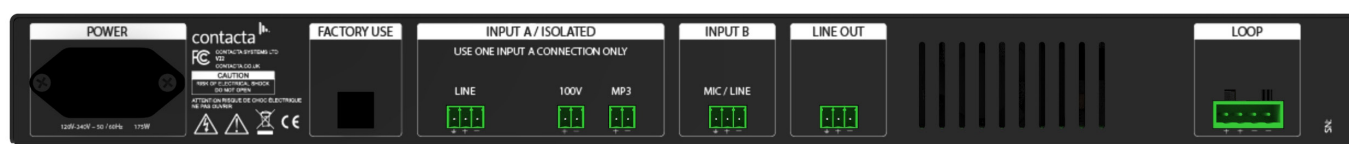
\*Note 1: Z=1.83Ω (162uH +0.838Ω @ 1.6kHz), Note 2: < 1% (-40dB) distortion

## 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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