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# V22+ Single Output Hearing Loop Driver

**V22-PLUS-UK / V22-PLUS-EU / V22-PLUS-AUS / V22-PLUS-USJ**

The V22+ is a powerful constant current, single output hearing loop driver which contains a high power Class D output stage. It is suitable for hearing loop systems in medium to large venues for perimeter and figure-eight loop layouts.

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 drivers.

## 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)
- Acoustic time delay

## 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

## 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 (Isolated) | 100V Line Input (Transformer isolated) 3.5mm Euroblock |
| | | Line (Isolated) | 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 9kHz | |
| | 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 | | |

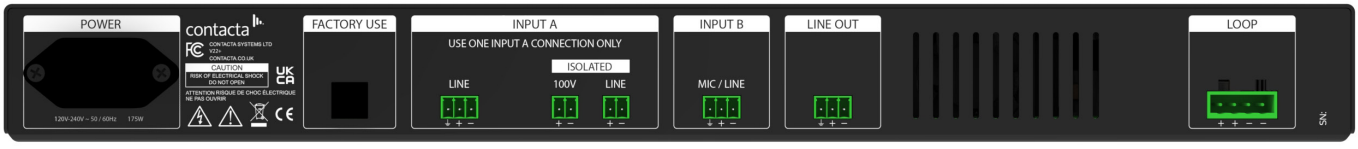
*Note 1: Z=1.83Ω (162uH +0.838Ω @ 1.6kHz), Note 2: < 1% (-40dB) distortion, Note 3: The minimum loop resistance (DCR) is 0.25Ω

## 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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## Standards

- Induction loop performance compliant with BS EN60118-4 (when correctly installed)

## Legislation

| Directive Number | Directive Title |
|---|---|
| 2014/30/EU | The Electromagnetic Compatibility Directive |
| Test Standards: | EN 55032:2015, A11 2020 |
| | > EN55016-2-1:2014 |
| | > EN55016-2-3:2010 A1 2010 A2 2014 |
| | EN 55103-2:2009 |
| | > EN61000-4-2:2009 |
| | > EN61000-4-3:2006 A1 2008 A2 2010 |
| | > EN61000-4-4:2012 |
| | > EN61000-4-5:2014 A1 2017 |
| | > EN61000-4-6:2009 |
| | > EN61000-4-11:2004 A1 2017 |
| | EN 61000-3-2:2019 |
| | EN 61000-3-3:2013 |
| 2014/35/EU | Low Voltage Directive (LED) |
| 2012/19-EU | Waste Electrical & Electronic Equipment (WEEE) Directive |
| 2011/863/EU | The Restriction of Hazardous Substances Directive |
| 2014/53/EU<br>Test Standard: | Radio Equipment Directive (RED)<br>EN 303 348 V1.2.1 |