



V15+ Single Output Hearing Loop Driver

V15-PLUS-UK / V15-PLUS-EU
V15-PLUS-AUS / V15-PLUS-USJ

Our highly efficient and compact V15+ is a constant current, single output hearing loop driver suitable for medium-sized facilities and venues.

It has a Class-D amplifier output stage and an audio subsystem built around an advanced DSP core. Combined with a powerful CPU to ensure peak performance, the V15+ 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
- Class-D amplifier output stage capable of delivering 5A_{RMS} @ >15V_{RMS}
- Ultra-efficient power utilisation (up to 90% efficient)
- High Pass Filter
- Audio time delay
- Switchable AGC (Automatic Gain control)
- Enhanced Loop Diagnostics
- 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)

Applications

Suitable for medium sized facilities, such as:

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

Voltage and Current

- >15V_{rms} @ 5Arms

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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Components

- V15+ Hearing Loop Driver
- PS-60 Power Supply

| Driver Area Coverage | Area | | |
|----------------------|---------------------|----------------------|----------------------|
| | 1:1 | 1:2 | 1:3 |
| | 95.06m ² | 143.00m ² | 178.64m ² |

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

Physical Data

| | |
|--------------|--|
| Dimensions | Height – 42mm (1.65") Width – 196mm (7.80") Depth – 132mm (5.20") [150mm (5.90") incl. XLR and control dial] |
| Weight | 938g (2.06lbs) |
| 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 | 1 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 <1% (-40dB) |
| | AGC | Switchable (ON/OFF) |
| | HF Comp | 7 optimised stages |
| | Acoustic Time Delay | 10ms to 70ms adjustable in 1ms steps |
| 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 heatsink with thermal protection |

*Note 1: Z=3Ω (265.4uH + 1.37Ω @ 1.6KHz), Note 2: 1% (-40dB) distortion

Rear Connections



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, Class B |
| | > EN55016-2-1:2009 A1 2011 |
| | > EN55016-2-3:2010 A1 2010 |
| | EN 55103-2:2009 E2 |
| | > EN61000-4-2:2009 |
| | > EN61000-4-3:2006 A1 2008 A2 2010 |
| | > EN61000-4-4:2012 |
| | > EN61000-4-5:2014 |
| | > EN61000-4-6:2009 |
| | > EN61000-4-11:2004 |
| | EN 61000-3-2:2014 |
| | 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 |