

BRS-15A Datasheet



BRS-15A is self-powered subwoofer, designed for install or portability. With exceptional low frequency of 45 Hz and fast response time of the 15" driver, the BRS-15A is capable of 135 dB SPL. Weighing 30.8kg with integrated handles this product is perfect for portable use. With discreet installation in mind, the foam fronted compact design will not look out of place on any project.

Using a high-power, 1 kW Class D amplifier with integrated DSP and full FIR-filtering. Signal XLR Input and link output (pairs) along powerCON® TRUE1 power and output are provided on the amplifier connection plate. LED indicators for signal present, peak, RMS and clip situations are also included.

This power is fully controlled & protected and coupled to a simplified back panel which removes unauthorised modification with pre-set selection and adjustments to gain, combined with peak and RMS limiting, give issue-free installation and performances.

BRS-15A is a compact reflex loaded 15" subwoofer to be used with the BRT series of mid high cabinets extending their low frequency response. This conventionally shaped cabinet can be hidden against a wall or under seating. When used in multiples the BRS-15A can cover a large room and still blend in nicely to the interior. The discreet design with reticulated foam front and acrylic textured paint finish and multiple integrated fixing points achieves a high class look suitable for any application.

Mounting options include a threaded insert for (TP-1) pole mounting of mid-high cabinets, location cups for easy storage or stacking together when used in a larger system and internal pocket handles for easy transportation.

The rear connection plate has two input and two link XLR connectors and a powerCON® TRUE1 input and link fitted as standard.

Key Features:

- Compact small physical footprint
- Reticulated foam finish grill
- 15" proprietary OHM driver
- Exceptional low frequency of 45 Hz
- 135 dB SPL
- Integrated stacking system
- Designed for portable use or fixed installations
- World-wide voltage compatibility
- Full input and output protection modes
- Module power efficiency of 89%
- 32 bit floating-point signal processing
- Analog Devices Sharc processor
- Linear phase FIR filters for predictable system response
- Dual band Look-Ahead Peak Limiter
- Dual band RMS Limiter
- Wide dynamic range 128dB(A) input converter
- Genuine Neutrik® Signal and Power connectors

Technical Specifications

Design

1 x 15" Active subwoofer with integrated FIR-DSP, Reflex Tuning

Internal Power Amps

900 Watts into 8 ohm

Internal DSP

Full FIR-DSP with linear phase X-over and linear phase loudspeaker equalization

Sensitivity Chassis 1w/1m

101 dB

Max. SPL

129 dB cont. / 135 dB peak (frequency dependent)

Frequency Response (± 3 dB)

49 Hz – 130 Hz

Usable Frequency Range (-10 dB)

45 Hz – 120 Hz

Dispersion

Omni

SYSTEM OPERATION

System Controller

Ohm DSP Solutions

Input connection

Symmetrical XLR input, 2 x 10 K ohm Impedance with parallel link out

Protection

Internal multiband Peak and RMS Limiter, thermal limiter and protection on Amplifier

PRODUCT FEATURES

Components

1 x 15" Low Frequency Driver

Crossover

-

Connectors

1 x XLR female, 1 x XLR male and 1 x powerCON® TRUE1 Connector

Dimensions (H x W x D mm)

508.3 x 500 x 500

Weight (kg)

30.8

Shipping Weight (kg)

33.3(1 cabinet per carton)

Colour

Black

Options

Available in white or RAL colours on request

Rigging

Foot and cup stacking system.

HARDWARE

Fitted as Standard

Foot and cups, Ergonomic handles. TP-1P Threaded adaptor plate.

Optional

TP-1 Threaded adjustable Pole

Additional Descriptive Data

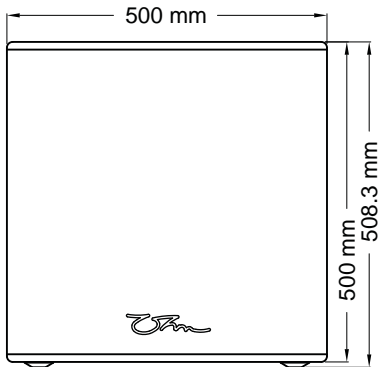
Birch plywood construction, with durable scratch resistant black textured paint finish, kick-proof steel grill and external black foam with Ohm logo.

Recommended filter settings are available on the website ohm.co.uk/downloads

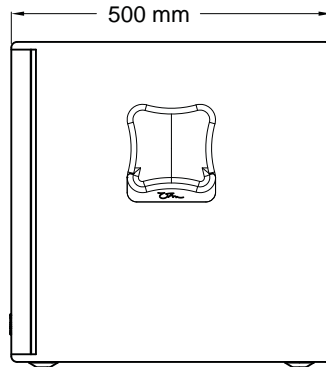
* All presets from the OHM library.

BRS-15A Dimensions

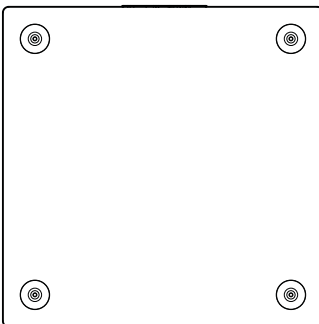
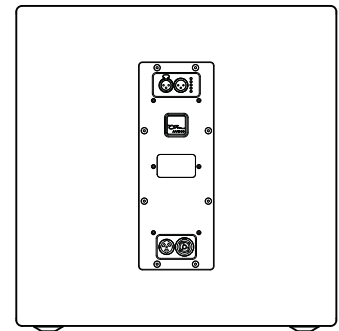
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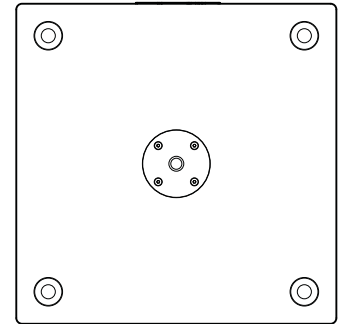
Side



Back



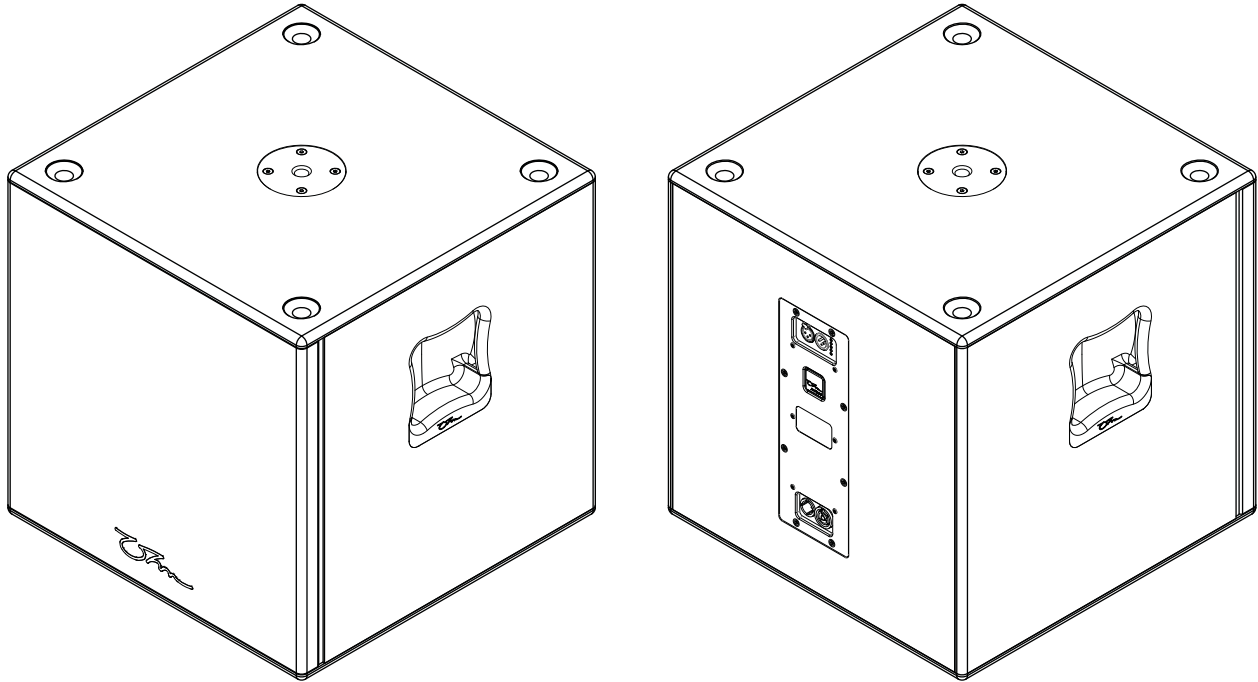
Bottom



Top

Further technical drawings for architectural requirements are available in DXF and DWG format for download on the website.

BRS-15A 3D View



Accessories and Spare Parts

- TP-1 adjustable threaded pole
- TP-1P threaded mounting plate
- 1 x 15" low frequency driver
- BRS-15A steel grill assembly
- BRS-15A backplate assembly
- Steel OHM logo

Architects' & Engineers' specifications:

2-Way dynamic loudspeaker in a multi purpose enclosure design, housing 1 x 15" proprietary OHM low mid bass driver, internally and externally ventilated double sided high temperature voice coil. Integrated active amplifier. Constructed from different multi-laminated wood, eco-friendly scratch resistant paint, skid-proof rubber feet and cup system, ergonomic carry handle, kick proof steel grill finished with external reticulated foam and Ohm logo.

Technical Data:

Frequency Response: 45 Hz – 120 Hz (-10dB), 49 Hz – 130 Hz (± 3 dB), Continuous SPL: 129 dB/1m, Peak SPL 135 dB/1 m, Maximum Output: 1000 Watt LF, Dispersion Omni. Connectors: 1 x XLR female, 1 x XLR male and 1 x Powercon True Connector. Dimensions (H x W x D): 506 mm x 500 mm x 500 mm, Weight: 30.8 kg. Options: Durable scratch resistant black textured paint finish. RAL colours available to order.

Safety Instructions

Professional speaker systems are able to produce sound pressure levels that could harm your health.

Never stand directly in front of loudspeakers for long periods. Whilst not immediately apparent to the listener, sound pressure levels in excess of 90dB@1m can be hazardous to the hearing.

Please refer to the following advice when setting up or dismantling OHM speaker systems.

1. Be sure to leave adequate distance between speakers and the public. Refer to your local authority for Health and Safety guidance when using loudspeaker systems.
2. Be sure to have safe and stable ground for your speakers, particularly when using speaker stands.
3. When stacking speaker systems, ensure they are secured to prevent individual speakers from falling down or moving around.
4. Only use OHM mounting hardware, as this has been specified and approved by AURAL LTD, OHM (UK) LTD for use with OHM speakers.
5. When flying speakers, appropriate materials and techniques must be employed in order to safely suspend enclosures, taking care to allow for specified enclosure weight.
6. Please observe any special instructions that appear on specific loudspeaker data-sheets.
7. Check your speaker hardware and flying material regularly for any visual or mechanical failure. Replace damaged or suspect items when necessary.

Safety Instructions Cont.

8. Only use OHM DSP Solutions. Only technicians authorised by AURAL LTD, OHM (UK) LTD are qualified to program digital controllers. Take note of recommended controllers as specified on the datasheets. Do not use OHM loudspeaker systems without the correct controller. If a system fails due to incorrect controller use, warranty is void.

9. Protect your speakers and electronics from freezing and do not expose them to humidity, water or rain without protection.

OHM loudspeakers and electronics are covered against defects in workmanship or materials for a period of two (2) years from original date of purchase. At the discretion of AURAL LTD, OHM (UK) LTD, the defective item will be repaired/replaced with no charge for materials or labour. The item is to be adequately packed and dispatched, pre-paid, to an OHM authorised distributor/service centre. Unauthorised repair shall void the warranty. The OHM warranty does not cover cosmetics or finish and does not apply to any item which in OHM's opinion has failed due to user abuse, accident, modifications or any type of misuse.

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