

# BRS-12A3 Datasheet



BRS-12A3 is an ultra-compact, invisible style 3 channel self-powered subwoofer designed for installation or portability. With exceptional low frequency of 36 Hz and fast response time of the 12" long excursion driver, the BRS-12A3 is capable of 129 dB SPL. Weighing 25.6kg with integrated handles this product is perfect for portable use. With discreet installation in mind, the 333mm low profile design allows for easy installation under industry standard fixed seating.

The BRS-12A3 incorporates a 1 kW Class D amplifier with a passive subwoofer channel plus 2 x 500W mid high outputs. This unit encompasses all the power for a complete system controlled by Ohm's pro-A-sync DSP software through an Ethernet interface. Integrated FIR-filtering combined with RMS and look-ahead Peak limiter ensures total system protection against user error. With rear mounted touch display for loading saved pre-sets, altering and viewing system status and output gain.

BRS-12A3 is a 12" reflex tuned subwoofer to be used with passive BRT series of mid high cabinets extending low frequency response. This conventionally shaped cabinet can be

hidden against a wall or under seating. When used in multiples the BRS-12A3 can cover a large room and still blend in nicely to the interior. The discreet design with hex grill and internal 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 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.

Two input and two link XLR connections along with Neutrik® powerCon® True1 input and link are provided on the amplifier connection plate. Two 4 pole Speakon connectors for mid-high outputs are wired on pins +1-1 on channel A and B. The second 'shared' subwoofer output is wired on channel B pins +2-2.

**Key features:**

- 3 channel amplified system
- Rebated Baltic Birch Plywood construction
- Integrated Class D Power modules
- World-wide voltage compatibility
- Full FIR-filtered DSP with linear phase outputs
- Fully integrated Look-Ahead and RMS limiters
- Compact design
- RMS & Peak limiters built into DSP
- Touch display pre-set selection and gain
- 1 kW shared bass output, 2 x 500 w mid-high outputs

# Technical Specifications

## Design

12" Active Subwoofer with integrated FIR-DSP,  
Reflex Tuning

## Internal Power Amps

Subwoofer - 1050 W into 4 Ohm  
Mid-high - 2 x 500 W into 4 Ohm

## Internal DSP

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

## Sensitivity Chassis 1W/1m

96 dB

## Max. SPL

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

## Frequency Response (±3 dB)

39 Hz – 110 Hz

## Usable Frequency Range (-10 dB)

33 Hz - 110 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 12" Low Frequency Driver

### Crossover

-

### Connectors

2 x XLR female, 2 x XLR male, 2 x 4 pole  
speakON® and 1 x powerCON® True1

Connector

### Dimensions (H x W x D mm)

333.3 x 400 x 606

### Weight (kg)

25.6

### Shipping Weight (kg)

26.6 (1 cabinet per carton)

### Colour

Black

### Options

Available in white or RAL colours on request

### Rigging

-

## HARDWARE

### Fitted as Standard

TP-IP Threaded adaptor Plate, Stacking foot  
system, Pocket handles

### Optional

TP-1 adjustable threaded pole.

### Additional Descriptive Data

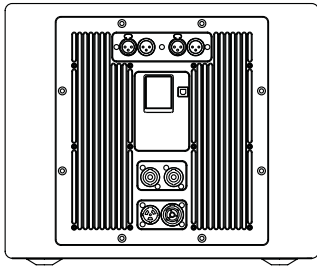
Birch plywood construction, with durable  
scratch resistant black textured paint finish,  
kick-proof steel grill and internal black foam  
with Ohm logo.

### Recommended filter settings are available on the website [ohm.co.uk/download](http://ohm.co.uk/download)

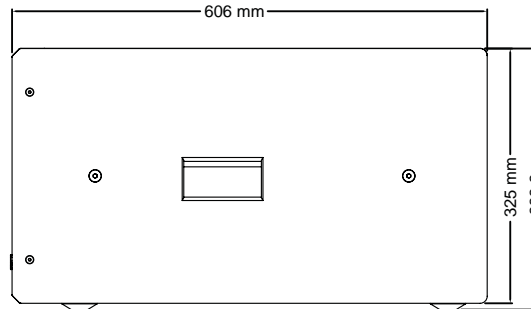
\* All presets from the OHM library.

## BRS-12A3 Dimensions

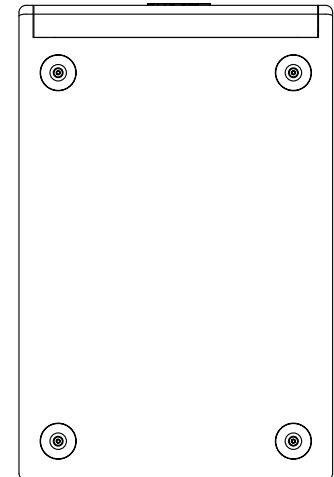
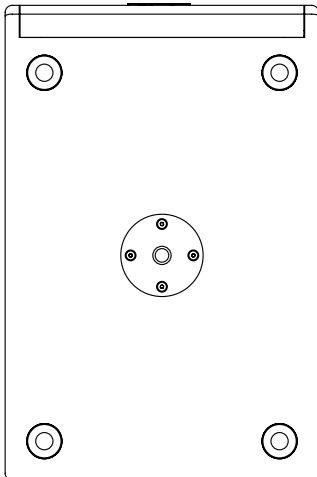
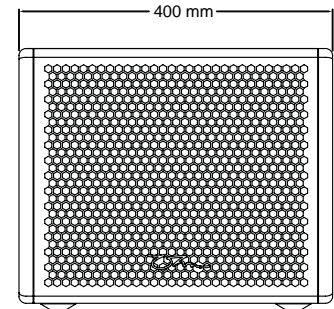
Front



Side

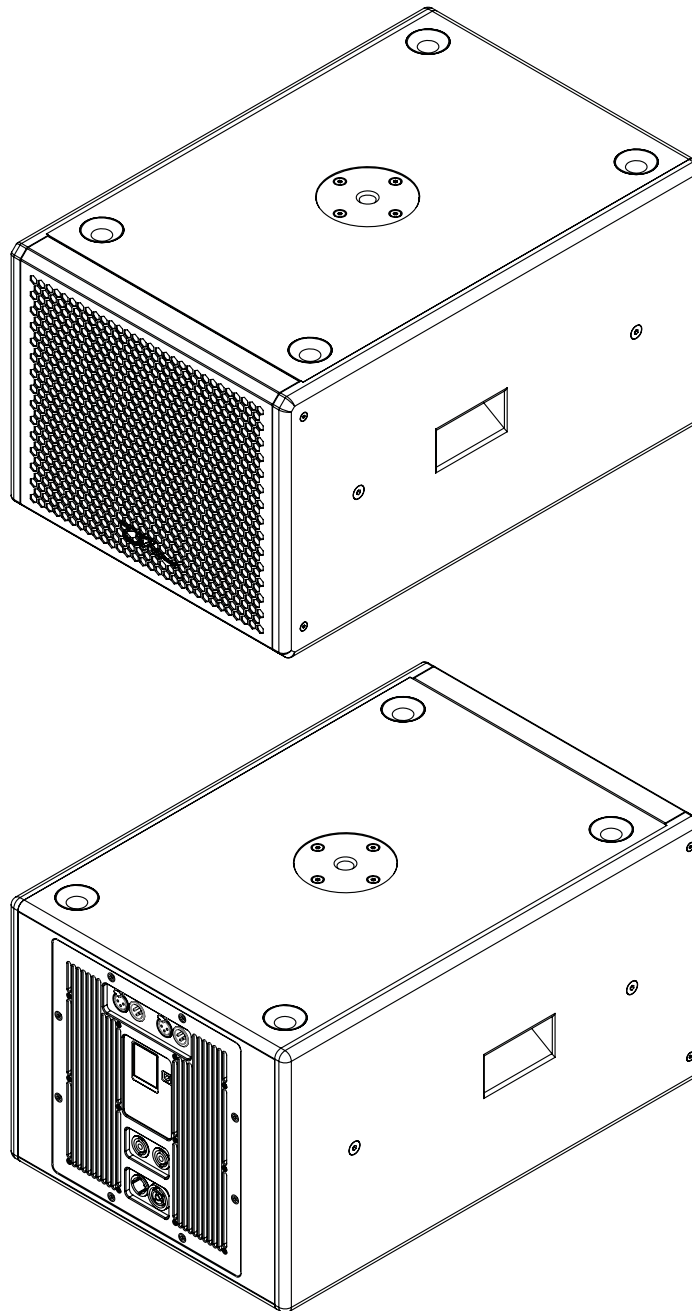


Back



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

## BRS-12A3 3D View



## Accessories and Spare Parts

- TP-1 adjustable threaded pole
- TP-1P threaded Mounting Plate
- 1 x 12" low frequency driver
- BRS-12A3 steel grill assembly
- BRS-12A3 backplate assembly
- Steel OHM Logo

## Architects' & Engineers' specifications:

Reflex tuned subwoofer enclosure design, housing 1 x 12" proprietary OHM low frequency driver. Integrated active amplifier. Constructed from different multi-laminated wood, eco-friendly scratch resistant paint, black textured paint finish, Foot and cup stacking system to allow multiples to be easily stacked. Kick proof steel grill finished with internal reticulated foam and steel Ohm logo.

## Technical Data:

Frequency Response: 39 Hz - 110 Hz (-10dB), 33 Hz -110 Hz ( $\pm 3$ dB) Continuous SPL: 123 dB/1m, Program SPL 126 dB/1m, Peak 129 dB/1 m. Internal Power Handling into 4 Ohms: 1050 Watt prog (mid high outputs 2 x 500 Watt. Dispersion Nominal: OMNI. Connectors: 2 x XLR female, 2 x XLR male, 2 x 4 pole speakON® and 1 x powerCON® True1. Dimensions (H x W x D): 333.3 mm x 400 mm x 606 mm, Weight: 23 kg. Options: 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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