

## BRS-12A3 Datasheet



BRS-12A3 is an ultra-compact 3 channel self-powered subwoofer. Utilising a custom designed and UK made Ohm 12" long excursion driver, this reflex tuned cabinet has an exceptionally low frequency response of as low as 33 Hz and a max SPL of 129 dB.

The BRS-12A3 houses 2 x 1 kW Class D amplifiers and outputs through 3 DSP channels which can be locally adjusted via the LCD or remotely configured via a USB socket on any Windows PC or Mac computer running our Pro-A-Sync software.

Output one is split between the internal driver and a shared bass output for connecting a passive BRS-12 subwoofer. Outputs 2 & 3 deliver 500W RMS (4Ω) per output for passive satellite speakers. Look-ahead and RMS limiters combined with intelligent DSP features like active gain reduction, give total system protection even under the harshest conditions.

Designed with installation or portability in mind, a low-profile design height of 333mm allows installation under industry standard fixed seating. Integrated handles and a modest weight of 25 Kg make transport easy. A pole mounting plate gives another option for temporary setups. Wall or ceiling mounting using the optional BRSC-12 bracket makes this small subwoofer easy to install in even the smallest venue.

Solving compact portable audio by using 2 x BRW-26 1x BRS-12A3, 1 x BRS-12 and pole mounts that all fit in the back of a standard car. The system is light enough to carry, the whole system to be conveniently stacked and transported on the optional wheel board.

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
- Universal 100 to 240 Volt mains operation (AC only)
- 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 DSP,  
Reflex Tuning

## Amplifier Gain

26 dB

## Internal Power Amps

Subwoofer - 1050 W RMS @ 4Ω  
Mid-high - 2 x 500 W RMS @ 4Ω

## Internal DSP

32 bit floating point DSP

## 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

## Mains Input Voltage

110 - 240 V AC only

## Mains Input Power Draw (max)

400 W

## Dispersion

OMNI

## SYSTEM OPERATION

### System Controller

Integrated DSP

### Input connection

Balanced XLR input with parallel link outputs

### Protection

Internal multi-band Peak and RMS Limiter. DC,  
HF and thermal protection

## PRODUCT FEATURES

## Components

1 x 12" Low Frequency Driver

## Crossover

Variable

## Connectors

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

## 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-1P Threaded adaptor Plate, Stacking foot  
system, Pocket handles

### Optional

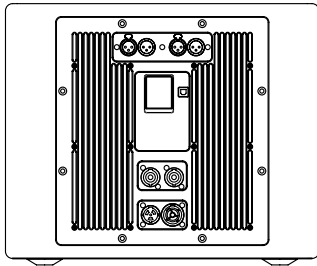
TP-1 adjustable threaded pole. BRSC-12 Cradle

### Additional Descriptive Data

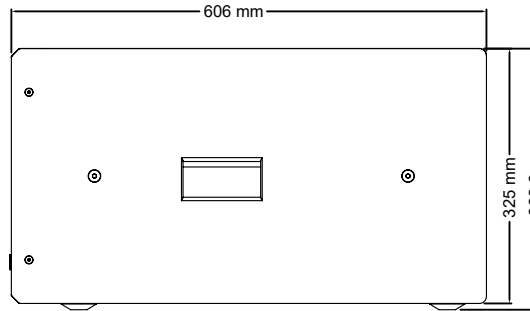
Birch plywood construction, with durable  
scratch resistant black textured paint finish,  
kick-proof steel grill and internal black foam  
with Ohm logo.

## BRS-12A3 Dimensions

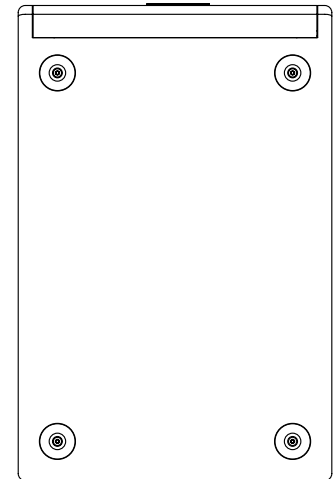
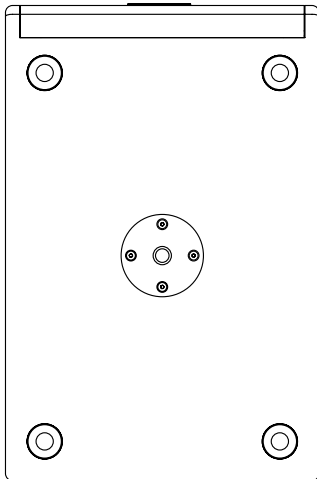
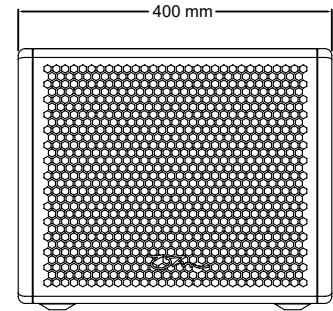
Front



Side

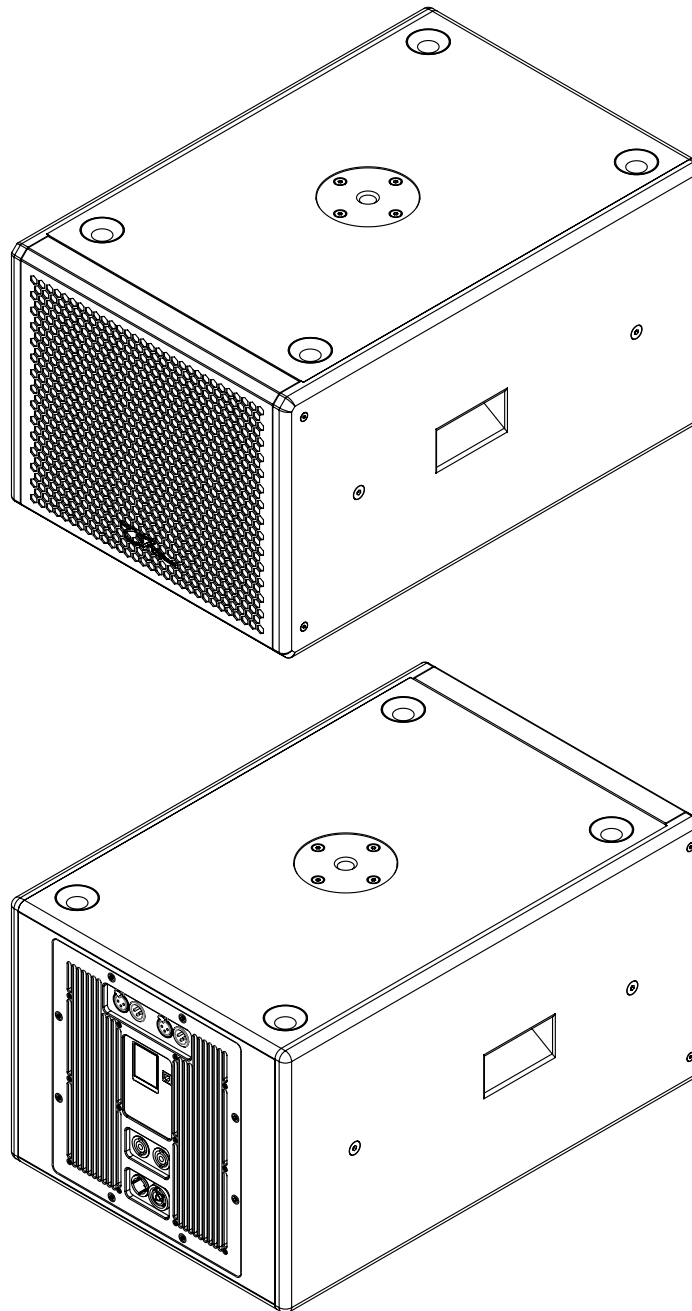


Back



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
- BRSC-12 Cradle
- 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: 25.6 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 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 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 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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