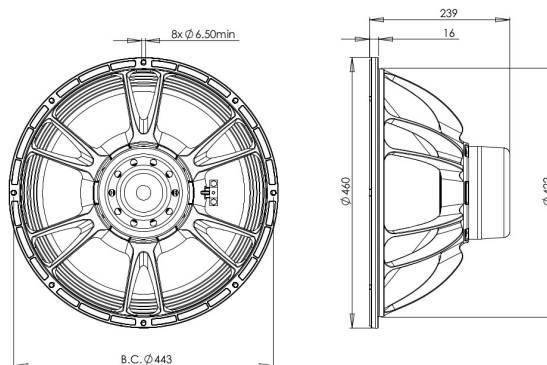


# 18DS100

**4Ω****LF Drivers** - 18.0 Inches

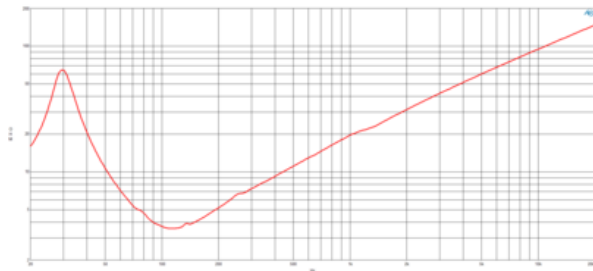
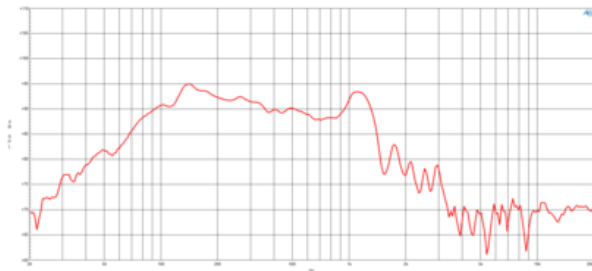
- 3000 W continuous program power capacity
- 100 mm (4 in) copper voice coil
- 32 - 1000 Hz response
- 98 dB sensitivity
- Double silicone spider with optimized compliance
- Ventilated voice coil gap for reduced power compression
- Aluminium demodulating ring for very low distortion



This next evolution subwoofer uses a new, longer, four layer aluminum voice coil. The result is less heat, more energy in the gap, higher sensitivity, higher power handling, lower distortion and better overall performance. The 18DS100 features a 34mm long, 4 inch diameter (100mm) Copper Clad Aluminum Wire voice coil. With a 1500watt AES power rating, 98 dB sensitivity, and over 14.0mm of Xvar, this high energy subwoofer is a significant step forward from similar models in the B&C range.

# 18DS100

LF Drivers- 18.0 Inches



## SPECIFICATIONS

Nominal Diameter	460 mm (18.0 in)
Nominal Impedance	4 $\Omega$
Minimum Impedance	4.0 $\Omega$
Nominal Power Handling <sup>1</sup>	1500 W
Continuous Power Handling <sup>2</sup>	3000 W
Sensitivity <sup>3</sup>	98.0 dB
Frequency Range	32 - 1000 Hz
Voice Coil Diameter	100 mm (4.0 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	34.0 mm (1.34 in)
Magnetic Gap Depth	16.0 mm (0.63 in)
Flux Density	0.7 T

## DESIGN

Surround Shape	Triple Roll
Cone Shape	Radial
Magnet Material	Neodymium Inside Slug
Spider	Double Silicone
Pole Design	T-Pole
Woofer Cone Treatment	TWP Waterproof Both Sides
Recommended Enclosure	200.0 dm <sup>3</sup> (7.06 ft <sup>3</sup> )
Recommended Tuning	35 Hz

## PARAMETERS<sup>4</sup>

Resonance Frequency	32 Hz
Re	2.5 $\Omega$
Qes	0.24
Qms	10.0
Qts	0.24
Vas	157.0 dm <sup>3</sup> (5.54 ft <sup>3</sup> )
Sd	1210.0 cm <sup>2</sup> (187.55 in <sup>2</sup> )
$\eta_o$	2.32 %
Xmax	13.0 mm
Xvar	14.0 mm
Mms	300.0 g
Bl	24.3 Txm
Le	2.82 mH
EBP	133 Hz

## MOUNTING AND SHIPPING INFO

Overall Diameter	460 mm (18.11 in)
Bolt Circle Diameter	443 mm (17.44 in)
Baffle Cutout Diameter	422.0 mm (16.61 in)
Depth	239 mm (9.41 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air Volume Occupied by Driver	10.0 dm <sup>3</sup> (0.35 ft <sup>3</sup> )
Net Weight	10.5 kg (23.15 lb)
Shipping Units	1
Shipping Weight	12.3 kg (27.12 lb)
Shipping Box	500x500x300 mm (19.69x19.69x11.81 in)

## SERVICE KIT

RCK18DS1004
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1. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
3. Applied RMS Voltage is set to 2 V for 4 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.