

# W18As

2-way bi-amplified active loudspeaker system

**Montarbo**  
Made in Italy



Designed to provide maximum definition, cleanness and high sound pressure levels, the W18As bi-amplified loudspeaker system ensures outstanding sound performance in the most critical sound reinforcement applications. W18As can be used alone or in multiple arrays to satisfy any need in short throw / wide coverage or long throw / narrow coverage in the widest range of applications, both indoor and outdoor.

## ARCHITECTURE

- The bass section utilizes a 18" high efficiency woofer. The mid-high section is equipped with a constant directivity horn (dispersion 90°H x 60°V) and a 2" compression driver.
- The built-in electronics includes:
  - 2, class AB, Mosfet amplifiers, each one fitted with our exclusive loudspeaker protections and a soft-start circuit to reduce the peak current drain at switch-on. The two on-board power amplifiers deliver a total output power of 850 W divided into 600 W for the bass section and 250 W for the mid/high section.
  - 2 active dynamic processors, optimise the specific features of each component and provide direct control of the operation of the systems, ensuring a constantly flat frequency response. They feature independent time constants (and operating thresholds that are sensitive to line voltage) and limit any excessive voice coil movement under the most demanding operating conditions. Unimpeded operation is guaranteed even when the system is subjected to extreme line voltage excursions.
  - a high slope active electronic crossover (24dB/octave, 800Hz) guaranteeing phase coherency and perfect overlapping of acoustic emissions of the transducers in the crossover region.
  - the output stages are cooled by an improved forced air heat exchanger, equipped with a temperature-controlled, low-noise, fan that ensures safe and cool operation under any operating conditions.
- The rear control and connection panel is fitted with:
  - balanced XLR input and output, master volume control and independent high level control.

## FEATURES

- High sound pressure levels, response extended to the extremes of the range, very low distortion, cleanness of the medium range, high dynamics.
- 2 class AB MosFet power amplifiers deliver a total output power of 850 W (LF 600 W, HF 250 W).
- 137 dB max SPL.
- 18" woofer with a 3" voice coil.
- 2" compression driver with titanium diaphragm and a 3" voice coil.
- 90° x 60° constant directivity horn.
- Trapezoidal cabinet made from high grade phenyl-glued multiply birch and finished with highly resistant antiscratch polyurethane black paint.
- Stand adapter; ergonomically designed side handles for easy transportation and set-up.

## APPLICATIONS

- Its adaptability to various applications allows W18As to be used in any type of installation ensuring optimum results to any professional requirement for sound reinforcement and distribution.
- Stadiums
- Concert halls
- Theatres
- Night clubs
- Medium-to-large venues
- Large-scale events

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## TECHNICAL SPECIFICATIONS

Enclosure	2-way; vented
Frequency response	40 Hz ÷ 20 kHz ±3dB
Sensitivity	101 dB SPL @ 1W/1m on axis
Max. SPL	131 dB
Max. power	850 W (LF 600 + HF 250)

• Components	custom designed
- bass frequencies	18" high efficiency woofer (3" voice coil)
- mid/high frequencies	2" driver (3" voice coil, titanium diaphragm) constant directivity horn (90°H x 60°V)
Impedance	4 ohms (bass) / 8 ohms (mid/high)
Frequency response	bass frequencies: 40 Hz ÷ 800 Hz mid/high frequencies: 800 Hz ÷ 20 kHz

• Active electronic x-over	24 dB/oct
Crossover frequency	800 Hz

• Built-in amplifier	2 MosFet, class AB, dedicated power units with 2 independent dynamic processors and 'soft start' circuit; forced air heat exchanger
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Max. output power	850 W
- LF	600 W (4 ohms / 0,1% THD)
- HF	250 W (8 ohms / 0,1% THD)

Frequency response	35 Hz ÷ 25 kHz +0/-1dB
Input impedance	10 kohm (balanced)
Input sensitivity	0 dBu (775mV)
Noise referred to input	- 108 dB (A weighted)

• Connections	balanced 3-pin XLR input and output
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• Controls	master volume control high level control
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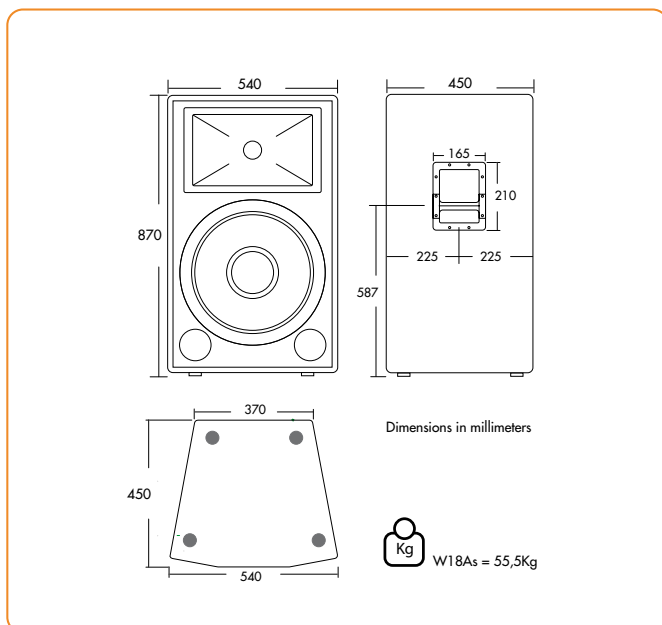
\* W18As is CB certified

## PHYSICAL SPECIFICATIONS

• Construction	trapezoid; birch multiply; antiscratch polyurethane paint; powder coated steel protection grille
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• Fittings	speaker stand adaptor; carrying handles;
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• Dimensions / Weight	W 54 x H 87 x D 45 cm / 55,5 kg
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Multiple enclosure arrays can be assembled for wide dispersion.



Multiple enclosure arrays can be assembled for long throw.