

- 96 dB SPL 1W/ 1m average sensitivity
- 75 mm (3 in) Interleaved Sandwich Voice coil (ISV)
- 450W AES power handling
- Weather protected cone and plates for outdoor usage
- Excellent transient response
- Improved heat dissipation via unique basket design

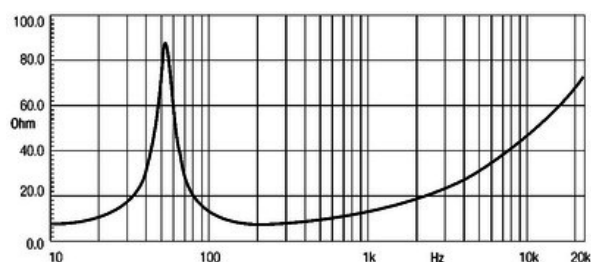
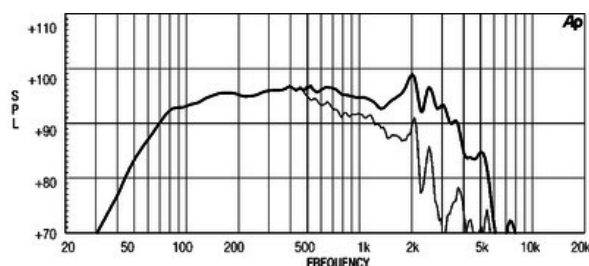
The 12W600 low frequency transducer meets the specific market requirement for a loudspeaker combining good linearity and efficiency with high power handling capabilities. Although primarily developed as woofer in compact reflex cabinets, the 12W600 driver's versatile characteristics make it also suitable for bandpass.

The high quality curvilinear cone assures smooth response and exceptional strength with maximum reliability under high mechanical stress. In the same way, the suspension geometry has been carefully designed for superior symmetry, resulting in DC offset free movement in a very low frequency area.

The 75 mm Ø state-of-the-art copper voice coil employs our Interleaved Sandwich Voice coil (ISV). A high strength fiberglass former carries windings on both the outer and inner surfaces. This results in a mass-balanced coil and an extremely linear motor assembly with a reduced tendency for eccentric behavior during high travels.

The ferrite magnetic structure has been optimized using FEA CAD simulation software to maximize the flux density and symmetry in the voice coil gap region and to minimize weight. A new lightweight aluminum basket contributes the excellent weight-to-performance ratio of the transducer.

Due to the increasing use of audio systems at outdoor events, the ability of the 12W600 to perform in adverse, high humidity weather conditions is a clear advantage. This has been achieved thanks to a proprietary water-repellent cone treatment.



SPECIFICATIONS

Nominal Diameter	300 mm (in)
Nominal Impedance	8 Ω
Nominal Power Handling ¹	450 W
Continuous Power Handling ²	600 W
Sensitivity ³	96.0 dB
Frequency Range	48 - 3700 Hz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	copper

DESIGN

Surround Shape	M-roll
Cone Shape	Curvilinear
Magnet Material	Ferrite
Woofer Cone Treatment	Weather protected

PARAMETERS⁴

Resonance Frequency	50 Hz
Re	5.5 Ω
Qes	0.32
Qms	5.87
Qts	0.3
Vas	73.0 dm ³ (2.58 ft ³)
Sd	531.0 cm ² (82.31 in ²)
Xmax	6.5 mm
Mms	55.0 g
Bl	17.3 Txm
Le	1.85 mH
EBP	156 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	316 mm (in)
Bolt Circle Diameter	296 mm (in)
Baffle Cutout Diameter	282.0 mm (in)
Depth	133 mm (in)
Flange and Gasket Thickness	11 mm (in)
Net Weight	5.7 kg (lb)
Shipping Weight	6.5 kg (lb)
Shipping Box	332 x 332 x 184 mm (13.07x13.07x7.24 in)

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 2.83 V for 8 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.