



# AM6212/64 High Power 2-Way Loudspeaker with 1 x 12" LF & Rotatable Horn



## Key Features:

- ▶ 60° x 40° Coverage, rotatable for use in either vertical or horizontal orientation.
- ▶ Large PT™ Progressive Transition™ Waveguide for excellent pattern control with low distortion.
- ▶ Bi-Amp/Passive Switchable.
- ▶ Optional U-Bracket for easy installation (see AE Series Bracket Guide).

## Applications:

- ▶ Performing arts facilities
- ▶ Theatrical sound design
- ▶ Auditoriums
- ▶ Houses of worship
- ▶ Live clubs
- ▶ Dance-clubs/discotheques
- ▶ Sports facilities
- ▶ Themed entertainment venues
- ▶ Delay/fill locations of larger systems

AM6212/64 is a high power 2-way full-range loudspeaker system comprised of one 300 mm (12 in) VGC™ Vented Gap Cooled low frequency driver and one 38 mm (1.5 in) exit/75 mm (3 in) voice-coil compression driver. The large PT Progressive Transition waveguide provides well-controlled 60° by 40° coverage and is rotatable for cabinet positioning in either horizontal or vertical orientation. High-slope crossovers minimize band overlap and well-controlled off-axis response enhances arrayability.

The cabinet is fitted with M10 threaded suspension points. Optional U-bracket is available for easy installation.

AM6212/64 is part of JBL's AE Application Engineered Series, a versatile family of loudspeakers for a wide variety of fixed installation applications.



## Specifications:

<b>System:</b>	
Frequency Range <sup>1</sup> (-10 dB):	40 Hz – 19 kHz
Frequency Response <sup>1</sup> (±3 dB):	60 Hz – 17 kHz
Coverage Pattern:	60° x 40°, rotatable waveguide
Directivity Factor (Q):	22.4
Directivity Index (DI):	13.5 dB
Crossover Modes:	Bi-amp/Passive switchable
Passive Crossover Slopes <sup>2</sup> :	4th order (24 dB/oct) Linkwitz-Riley HP & LP, 1.3 kHz
Transducer Power Rating (AES):	LF: 800 W (3200 W peak), 2 hrs 600 W (2400 W peak), 100 hrs HF: 75 W (300 W peak), 2 hrs
Long-Term System Power Rating (IEC):	Passive mode: 600 W (2400 W peak), 100 hrs
Maximum SPL:	Bi-amp mode: LF: 124 dB-SPL cont avg (130 dB peak) HF: 135 dB-SPL cont avg (141 dB peak) Passive mode: 124 dB-SPL cont avg (130 dB peak)
System Sensitivity <sup>6</sup> (1W @ 1m):	Passive mode: 95 dB SPL
<b>Transducers:</b>	
Low Frequency Driver:	1 x JBL 2206H 300 mm (12 in) VGC™ driver with 100 mm (4 in) voice coil
Nominal Impedance:	8 ohms
Sensitivity <sup>6</sup> (1W @ 1m, within operational band):	95 dB SPL
High Frequency Driver:	JBL 2431H, 38 mm (1.5 in) exit compression driver, 75 mm (3 in) voice coil
Nominal Impedance:	8 ohms
Sensitivity <sup>6</sup> (1W @ 1m):	116 dB SPL
Waveguide:	PT-H64HF
<b>Physical:</b>	
Enclosure:	Trapezoidal with 15 degree side angles, 16 mm (5/8 in) exterior grade 11-ply Finnish birch plywood
Suspension Attachment:	15 points (4 top, 4 bottom, 2 each side, 3 rear), M10 threaded hardware
Finish:	Black DuraFlex™ finish. White available upon request.
Grille:	Powder coated 14 gauge perforated steel, with acoustically transparent black foam backing.
Input Connector:	NL4 Neutrik Speakon™ and CE-compliant covered barrier strip terminals. Barrier terminals accept up to 5.2 sq mm (10 AWG) wire or max width 9 mm (.375 in) spade lugs. Speakon in parallel with barrier strip for loop-through.
Environmental Specifications:	Mil-Std 810; IP-x3 per IEC529.
Dimensions (H x W x D in vertical cabinet orientation):	713 x 371 x 460 mm (28.1 x 14.6 x 18.1 in)
Net Weight:	26.8 kg (59 lb)
Optional Accessories:	M10 x 35 mm forged shoulder eyebolts with washers U-Bracket MTU-3

<sup>1</sup>Bi-amp mode, with recommended active tuning.

<sup>2</sup>Resultant engineered acoustical response of crossover network and components.

<sup>3</sup>AES standard, one decade pink noise with 6 dB crest factor within device's operational band, free air. Standard AES 2 hr rating plus long-term 100 hr rating are specified for low-frequency transducers.

<sup>4</sup>IEC standard, full bandwidth pink noise with 6 dB crest factor, 100 hours.

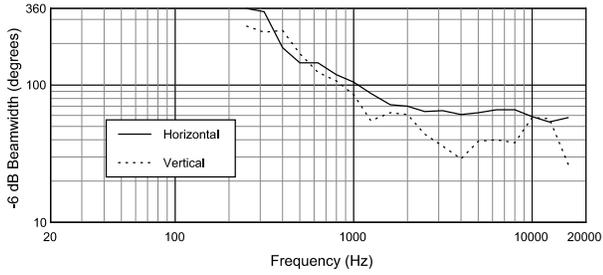
<sup>5</sup>Calculated based on power rating and sensitivity, exclusive of power compression.

<sup>6</sup>Anechoic sensitivity in free field, no additional sensitivity gain from boundary loading.

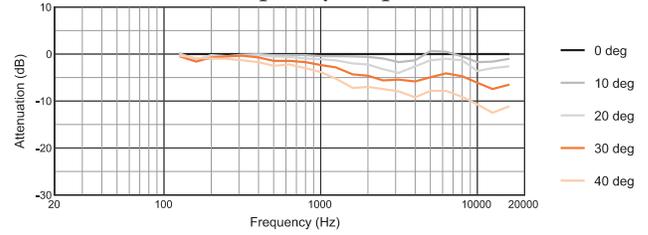
JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.

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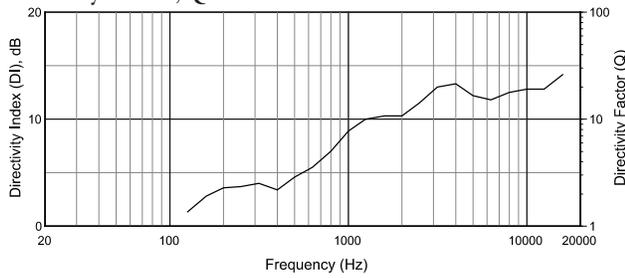
**Beamwidth**



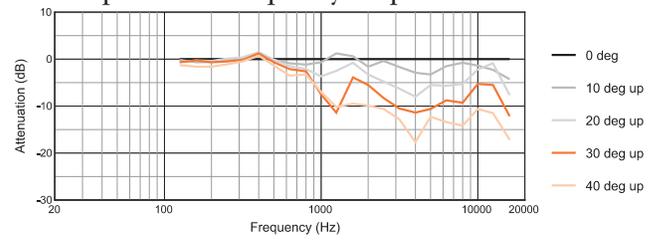
**Horizontal Off-Axis Frequency Response**



**Directivity Index, Q**



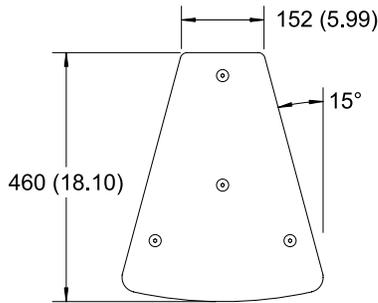
**Vertical Up Off-Axis Frequency Response**



**Dimensions**

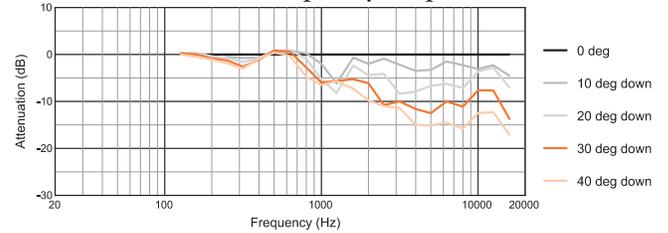
Dimensions in mm (in)

For more detailed dimensional information, refer to Application Data Sheet

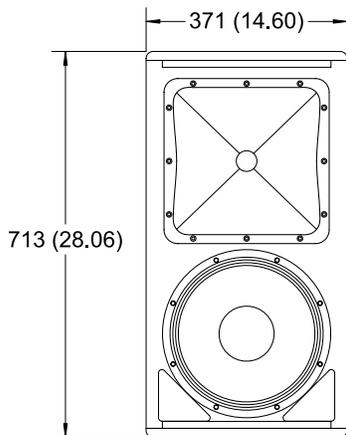


Top

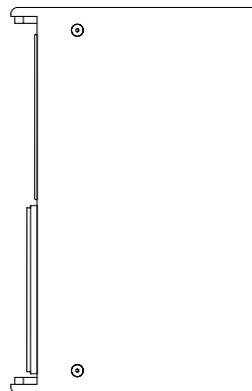
**Vertical Down Off-Axis Frequency Response**



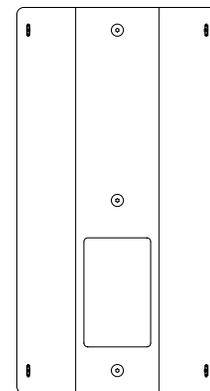
Measurements obtained in full passive crossover mode with no signal processing. Graphs are from unaltered measured data.



Front

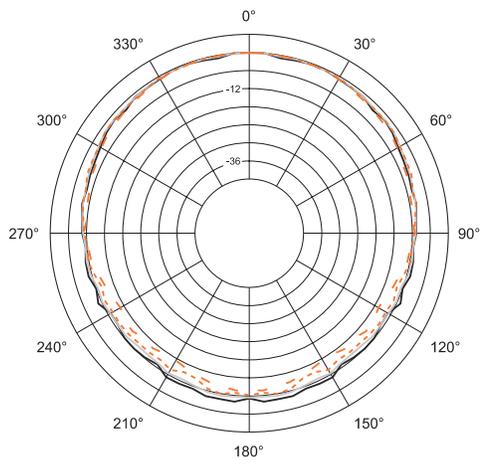


Side

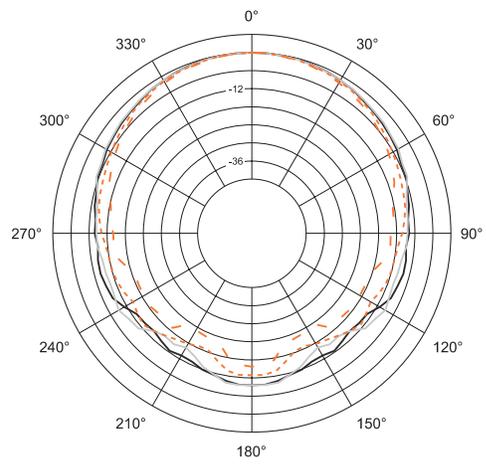


Back

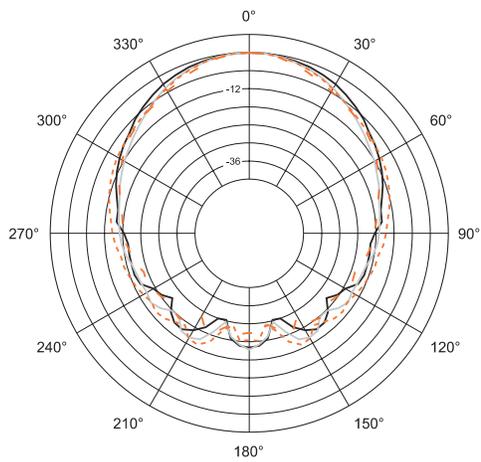
## Horizontal 1/3 Octave Polars



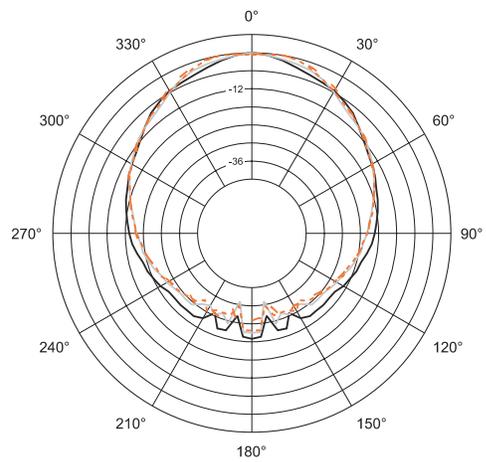
— 200Hz  
— 250Hz  
- - 315Hz  
- - 400Hz



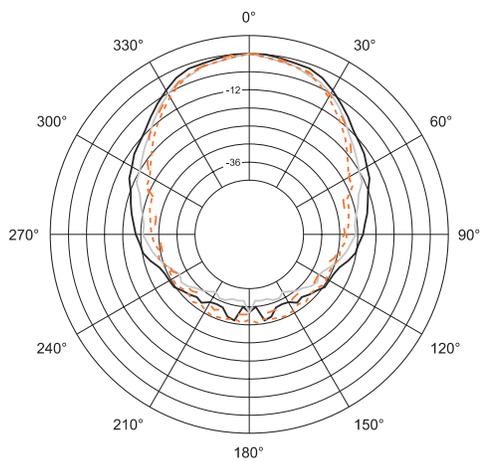
— 500Hz  
— 630Hz  
- - 800Hz  
- - 1kHz



— 1.25kHz  
— 1.6kHz  
- - 2kHz  
- - 2.5kHz



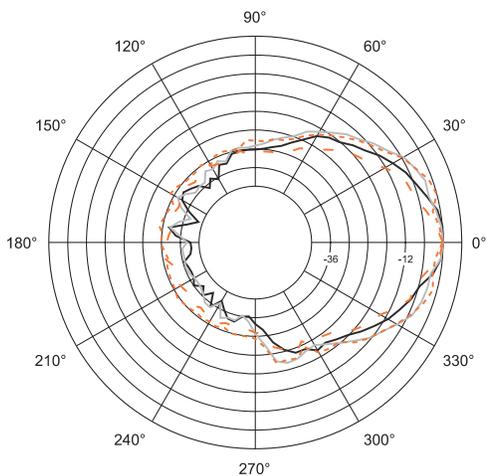
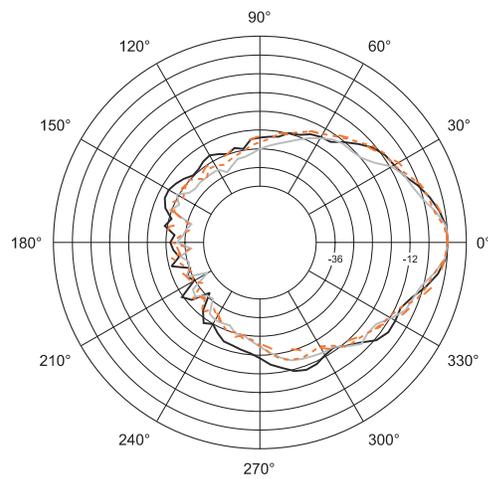
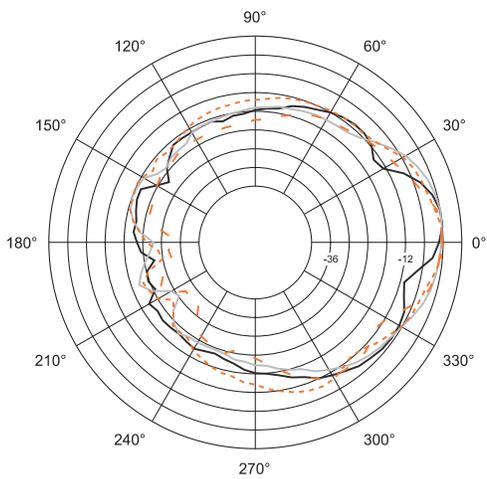
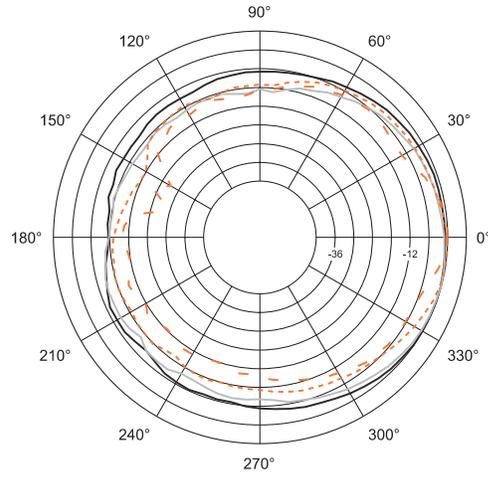
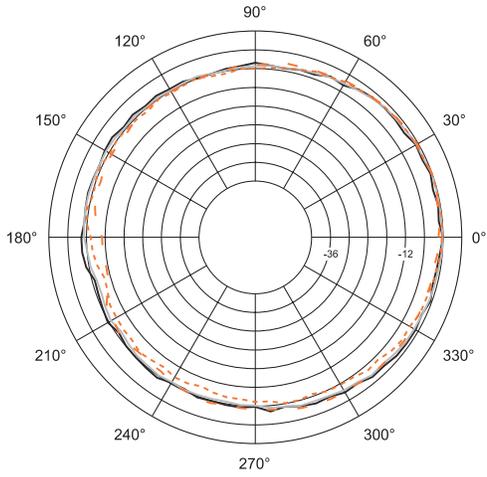
— 3.15kHz  
— 4kHz  
- - 5kHz  
- - 6.3kHz



— 8kHz  
— 10kHz  
- - 12.5kHz  
- - 16kHz

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## Vertical 1/3 Octave Polars



JBL Professional  
 8500 Balboa Boulevard, P.O. Box 2200  
 Northridge, California 91329 U.S.A.

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