

Application Engineered™ Series

key features

- ➊ SCALED SYSTEM APPROACH WITH VERSATILE OPTIONS
- ➋ VGC™ DRIVERS AND DIFFERENTIAL DRIVE® CONE TRANSDUCERS
- ➌ PT™ PROGRESSIVE TRANSITION WAVEGUIDES FOR EXCELLENT PATTERN CONTROL

AE Series loudspeakers are ideal for a wide variety of fixed installation applications including performing arts facilities, theatrical sound design, auditoriums, houses of worship, live music clubs, dance-clubs/discotheques, sports facilities and themed entertainment venues. The special mid-high frequency models can be used without LF reinforcement in voice-only PA and delay-fill applications. The smaller models are ideal in lecture halls and corporate learning centers as well as in delay-fill locations of larger systems.

Scaled System Design Approach

AE Series models provide a wide variety of building blocks for your system design, stair-stepped to give you just the right solution for your installation.

6000 SERIES

4000 SERIES

2000 SERIES

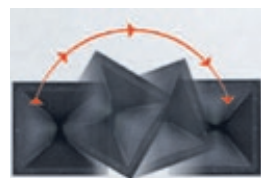
6000-Series models are the highest power speakers in the AE Series. **4000-Series** models are medium power and **2000-Series** are at lower power points for applications not requiring high power capability.

Waveguide Scaling

Sometimes you need maximum pattern control. Other times the speaker needs to be as compact as possible. [AM] models are performance-maximized for the greatest pattern control. [AC] models are compact speakers that fit in areas where a smaller frontal profile is required.

Sophisticated Crossover Networks

AE Series models incorporate sophisticated crossover designs for outstanding sound quality and consistent coverage. To minimize overlap between adjacent frequency bands, steep slopes are utilized in passive crossovers — most are 4th order (24 dB/octave). This reduces off-axis lobing, providing consistent coverage throughout the crossover region. Conjugate networks are added in some models to fine tune the frequency response for optimum sound quality.



Rotatable Waveguides

The space often dictates how a speaker needs to be oriented. All [AM] two-way

and three-way models include a rotatable waveguide, allowing the speaker to be installed in either vertical or horizontal orientation.

Selectable Crossover Mode

Many AE Series speakers offer selectable crossover modes: tri-amp/bi-amp or bi-amp/passive switchable.

Versatile Model Options

All AE Series speakers are available in several versions for matching décor or for outdoor use. Any model can be finished in white (-WH) or left unfinished and ready to paint (-UF). Additionally, two degrees of weather resistance are available. For many environments the basic weather resistance option (-WRC) is suitable. An extra thick DuraFlex™ coating, multilayer grille and component treatments provide excellent environmental protection. For extreme environments, with high humidity and/or rapid temperature cycling, a maximum weather treatment (-WRX) adds a full fiberglass covering of the cabinet.

Legendary JBL Transducers

AE Series incorporates the legendary reliability of JBL's VGC™ Vented Gap Cooled Drivers, augmented by today's new generation of JBL compression drivers and neodymium Differential Drive® cone transducers. Where reliability is important, JBL transducers are known as the best, most reliable drivers in the business.



PT™ Progressive Transition Waveguides

JBL's new patent pending Progressive Transition Waveguides represent the latest in horn technology.

In addition to providing smooth, low distortion sound, PT Waveguides deliver uniform off-axis frequency response to every point within the intended coverage area — not just in the horizontal and vertical planes — resulting in superior array-ability of multiple loudspeaker systems. PT Waveguides combine outstanding pattern control with undistorted sound for natural music and intelligible speech.



CMCD™ Cone Midrange Compression Drivers

Incorporated into all cone midrange models — patent pending CMCD

technology is more than a simple displacement plug. In addition to providing increased output and lower distortion, this cone-based true compression driver design extends operational bandwidth (both up and down in frequency) to cover the entire vocal range seamlessly, allows for better waveguide pattern control, and improves phase coherency of the midrange signal for clearer, more intelligible audio quality.

MODEL NUMBERING KEY

M = Performance Maximized
C = Compact
LF = Low Frequency
SB = Subwoofer
SH = Subwoofer Horn-Loaded

6000 = Highest Power
4000 = Medium Power
2000 = Lower Power

3 = 3-Way
2 = 2-Way
1 = 1-Band

AM6340/95

EXAMPLE

Coverage Pattern

Horizontal
0 = 100°
9 = 90°
6 = 60°

Vertical
0 = 100°
5 = 50°
4 = 40°

[AM] Rotatable
[AC] NOT Rotatable
(Contact JBL about additional patterns)

The Number of LF Drivers

4 = 4 LF Drivers
2 = 2 LF Drivers
1 = 1 LF Driver
0 = 0 Mid-Hi or HF System

Woofer Size

8 = 18"
5 = 15"
2 = 12"
0 = 10"

(For smaller future models, # may refer to the under-10" diameter)





AM6340/xx



AM6315/xx



AM6200/xx



AM4315/xx



AM4200/xx

AM | Maximixed 3-Way

	AM6340/95 & /64	AM6315/95 & /64	AM6200/95 & /64	AM4315/95 & /64	AM4200/95 & /64
SYSTEM TYPE	High-power Three-way	High-power Three-way	High-power Mid-high	Medium-Power Three-way	Medium-Power Mid-high
FREQUENCY RANGE	50 Hz - 19 kHz (-10 dB)	38 Hz - 19 kHz (-10 dB)	200 Hz - 19 kHz (-10 dB)	40 Hz - 23 kHz (-10 dB)	350 Hz - 23 kHz (-10 dB)
FREQUENCY RESPONSE	55 Hz - 17 kHz (± 3 dB)	45 Hz - 17 kHz (± 3 dB)	250 Hz - 17 kHz (± 3 dB)	50 Hz - 20 kHz (± 3 dB)	400 Hz - 20 kHz (± 3 dB)
NOMINAL COVERAGE	AM6340/95: 90° x 50° AM6340/64: 60° x 40°	AM6315/95: 90° x 50° AM6315/64: 60° x 40°	AM6200/95: 90° x 50° AM6200/64: 60° x 40°	AM4315/95: 90° x 50° AM4315/64: 60° x 40°	AM4200/95: 90° x 50° AM4200/64: 60° x 40°
TRANSDUCER	LF	LF	LF	LF	LF
POWER RATING(AES)	MF	MF	MF	MF	MF
	HF	HF	HF	HF	HF
LONG-TERM POWER RATING(IEC):	LF	LF	LF	LF	LF
	MF/HF	MF/HF	MF/HF	MF/HF	MF/HF
MAXIMUM SPL:	LF	LF	LF	LF	LF
	MF	MF	MF	MF	MF
	HF	HF	HF	HF	HF
BI-AMP MODE:	MF/HF	MF/HF	MF/HF	MF/HF	MF/HF
SELECTABLE CROSSOVER MODES	Bi-amp, Tri-amp	Bi-amp, Tri-amp	Bi-amp, Passive	Bi-amp, Passive	Bi-amp, Passive
SUSPENSION	13 points	13 points	13 points	13 points	13 points
DIMENSIONS (H x W x D)	1094 x 561 x 657 mm	967 x 561 x 657 mm	548 x 561 x 657 mm	967 x 561 x 657 mm	548 x 561 x 657 mm
NET WEIGHT (each)	43.1 x 22.1 x 25.9 in	38.1 x 22.1 x 25.9 in	21.6 x 22.1 x 25.9 in	38.1 x 22.1 x 25.9 in	21.6 x 22.1 x 25.9 in
	56.7 kg (125 lb)	48.3 kg (107 lb)	29.0 kg (64 lb)	46.7 kg (103 lb)	28.1 kg (62 lb)



AM6215/xx



AM6212/xx



AM4215/xx



AM4212/xx

AM | Maximixed 2-Way

	AM6215/95 & /64	AM6212/95, /64 & /00	AM4215/95 & /64	AM4212/95, /64 & /00
SYSTEM TYPE	High-power Two-way	High-power Two-way	Medium-power Two-way	Medium-power Two-way
FREQUENCY RANGE	35 Hz - 19 kHz (-10 dB)	40 Hz - 19 kHz (-10 dB)	40 Hz - 20 kHz (-10 dB)	55 Hz - 20 kHz (-10 dB)
FREQUENCY RESPONSE	45 Hz - 17 kHz (± 3 dB)	60 Hz - 17 kHz (± 3 dB)	45 Hz - 18 kHz (± 3 dB)	70 Hz - 18 kHz (± 3 dB)
NOMINAL COVERAGE	AM6215/95: 90° x 50° AM6215/64: 60° x 40°	AM6212/95: 90° x 50° AM6212/64: 60° x 40° AM6212/00: 100° x 100°	AM4215/95: 90° x 50° AM4215/64: 60° x 40°	AM4212/95: 90° x 50° AM4212/64: 60° x 40° AM4212/00: 100° x 100°
TRANSDUCER	LF	LF	LF	LF
POWER RATING(AES):	HF	HF	HF	HF
LONG-TERM POWER RATING(IEC):	PASSIVE MODE	PASSIVE MODE	PASSIVE MODE	PASSIVE MODE
MAXIMUM SPL: LF/HF	PASSIVE MODE	PASSIVE MODE	PASSIVE MODE	PASSIVE MODE
SELECTABLE CROSSOVER MODES	Bi-amp, Passive	Bi-amp, Passive	Bi-amp, Passive	Bi-amp, Passive
SUSPENSION	15 points	15 points	15 points	15 points
DIMENSIONS (H x W x D)	783 x 422 x 504 mm	713 x 371 x 460 mm	783 x 422 x 504 mm	713 x 371 x 460 mm
NET WEIGHT (each)	30.8 x 16.6 x 19.9 in	28.1 x 14.6 x 18.1 in	30.8 x 16.6 x 19.9 in	28.1 x 14.6 x 18.1 in
	29.9 kg (66 lb)	26.3 kg (58 lb)	29.0 kg (64 lb)	25.4 kg (56 lb)

AE SERIES



AC | Compact 2-Way

	AC2215/95, /64 & /00	AC2212/95, /64 & /00
SYSTEM TYPE	Lower-power Two-way	Lower-power Two-way
FREQUENCY RANGE	42 Hz - 19 kHz (-10 dB)	50 Hz - 19 kHz (-10 dB)
FREQUENCY RESPONSE	50 Hz - 17 kHz (± 3 dB)	55 Hz - 17 kHz (± 3 dB)
NOMINAL COVERAGE	AC2215/95: 90° x 50° AC2215/64: 60° x 40° AC2215/00: 100° x 100°	AC2212/95: 90° x 50° AC2212/64: 60° x 40° AC2212/00: 100° x 100°
TRANSDUCER	LF: 275 W (1100 W peak) HF: 30 W (120 W peak)	LF: 300 W (1100 W peak) HF: 30 W (120 W peak)
LONG-TERM POWER RATING (IEC)	250 W (1000 W peak)	250 W (1000 W peak)
MAXIMUM SPL: LF	121 dB	120 dB
MAXIMUM SPL: HF	127 dB	129 dB
PASSIVE MODE	Bi-amp, Passive	Bi-amp, Passive
SELECTABLE CROSSOVER MODES	15 points	15 points
SUSPENSION	637 x 422 x 504 mm	548 x 355 x 352 mm
DIMENSIONS (H x W x D)	25.1 x 16.6 x 19.9 in	21.6 x 14.0 x 13.9 in
NET WEIGHT (each)	23.6 kg (52 lb)	18.1 kg (40 lb)



AL | Low Frequency

	AL6115	AL6125
SYSTEM TYPE	High-power Low Freq.	High-power Low Freq.
FREQUENCY RANGE	40 Hz - 2.5 kHz (-10 dB)	40 Hz - 2.5 kHz (-10 dB)
FREQUENCY RESPONSE	47 Hz - 2.1 kHz (± 3 dB)	42 Hz - 2.1 kHz (± 3 dB)
TRANSDUCER	1000 W (4000 W peak)	2000 W (8000 W peak)
POWER RATING(AES)	(2 hrs)	(2 hrs)
LONG-TERM SYSTEM POWER RATING	600 W (2400 W peak)	1200 W (2400 W peak)
MAXIMUM SPL ¹	100 hrs	100 hrs
SELECTABLE CROSSOVER MODES	50 Hz - 125 Hz: 129 dB 125 Hz - 800 Hz: 127 dB	50 Hz - 125 Hz: 130 dB 125 Hz - 800 Hz: 129 dB
ENCLOSURE	Discrete	Parallel, Discrete
SUSPENSION	Trapezoidal, 15° side angles	Rectangular
DIMENSIONS (H x W x D)	13 points	12 points
NET WEIGHT (each)	548 x 561 x 657 mm 21.6 x 22.1 x 25.9 in	967 x 422 x 504 mm 38.1 x 16.6 x 19.9 in
	29.0 kg (64 lb)	44.5 kg (98 lb)

¹ Maximum long-term average SPL. Peak SPL is 6 dB higher. Figure is for highest Q version.



ASB | Subwoofers

	ASB6118	ASB6128	ASB4128	ASB6128V	ASH6118
SYSTEM TYPE	High-power Subwoofer	High-power Subwoofer	Medium-power Subwoofer	Extended Response Sub	Horn-loaded Subwoofer*
FREQUENCY RANGE	28 Hz - 1 kHz (-10 dB)	30 Hz - 1 kHz (-10 dB)	30 Hz - 1 kHz (-10 dB)	21 Hz - 300 Hz (-10 dB)	25 Hz - 250 Hz (-10 dB)*
FREQUENCY RESPONSE	35 Hz - 1 kHz (± 3 dB)	38 Hz - 1 kHz (± 3 dB)	40 Hz - 1 kHz (± 3 dB)	25 Hz - 300 Hz (± 3 dB)	30 Hz - 200 Hz (± 3 dB)
TRANSDUCER	1200 W (4800 W peak)	2400 W (9600 W peak)	1000 W (4000 W peak)	2400 W (9600 W peak)	1200 W (4800 W peak)
POWER RATING(AES)	(2 hrs)	(2 hrs)	(2 hrs)	(2 hrs)	(2 hrs)
LONG-TERM SYSTEM POWER RATING	800 W (3200 W peak)	1600 W (6400 W peak)	600 W (2400 W peak)	1600 W (6400 W peak)	800 W (3200 W peak)
MAXIMUM SPL	100 hrs	100 hrs	100 hrs	100 hrs	100 hrs
SELECTABLE CROSSOVER MODES	30 Hz - 100 Hz: 129 dB 100 Hz - 500 Hz: 129 dB	30 Hz - 100 Hz: 136 dB 100 Hz - 500 Hz: 136 dB	30 Hz - 100 Hz: 133 dB 100 Hz - 500 Hz: 133 dB	30 Hz - 100 Hz: 134 dB 100 Hz - 500 Hz: 135 dB	30 Hz - 140 Hz: 133 dB
ENCLOSURE	Discrete	Parallel, Discrete	Parallel, Discrete	Parallel, Discrete	Discrete
SUSPENSION	Rectangular	Rectangular	Rectangular	Rectangular	Rectangular
DIMENSIONS (H x W x D)	14 points	12 points	14 points	13 points	None
NET WEIGHT (each)	548 x 561 x 816 mm 21.6 x 22.1 x 32.2 in	1094 x 561 x 816 mm 43.1 x 22.1 x 32.2 in	1094 x 561 x 816 mm 43.1 x 22.1 x 32.2 in	967 x 561 x 1215 mm 38.1 x 22.1 x 47.85 in	564 x 1530 x 1288 mm 22.3 x 56.4 x 50.7 in
	44.5 kg (98 lb)	73.0 kg (161 lb)	64.9 kg (143 lb)	89.8 kg (198 lb)	159.3 kg (351 lb)

* Designed to be used in multiples (2 minimum, 4 optimum) with proximity placement or with proper boundary surface loading. Specifications shown are for one cabinet.