

TECHNICAL SPECIFICATIONS

AC66

Product Group: Installation Group
System Type: 2-Way, 1" x Dual 6", 100°x90°

FEATURES & ADVANCES

- Compact Form Factor
- Reference Quality Sound Reproduction
- Weather Resistant Construction
- Optional U-Bracket Factory Hardware

PRODUCT DESCRIPTION

The AC66 is a two way full range loudspeaker designed for permanent installations. This low profile, high output, weather resistant speaker features a two treated direct radiating 6.5 inch cone loudspeaker and a 1 inch high frequency driver loaded on a 100 x 90 degree waveguide, with a passive crossover. The AC66 is ideally suited for under balconies, distributed systems, or any other application where compact high output, high resolution sound reproduction is needed.

CONSTRUCTION

The enclosure is constructed of 12-ply void-free birch hardwood plywood and is coated with a weather and wear resistant ProCoat™ polyurea hybrid finish. All rigging components are weather protected with a heat cured epoxy powder coat finish. Components in the front of the enclosure are protected by a curved grill made from perforated steel that is coated with heat cured epoxy powder, and lined with acoustically transparent foam.

MOUNTING & RIGGING

Mounting locations are distributed across 5 surfaces of the enclosure. An Omni-mount™ compatible location is available on the rear of the enclosure, while an additional 15 reinforced 1/4-20 UNC threaded locations are available for other mounting options. U-bracket with attachment hardware is also available for single unit wall and ceiling mount installation.

AMPLIFICATION & PROCESSING

One channel of discrete amplification and signal processing is required for this product. The preferred signal processor for the AC66 is the McCauley MSeries family of loudspeaker controllers. The System Design Group can help in creating a complete amplification and signal processing solution.



APPLICATIONS

- Houses of Worship
- Performing Arts Centers
- Dance Clubs
- Theme Parks
- Auditoriums
- Theatrical Sound Design
- Live Clubs
- Sports Facilities

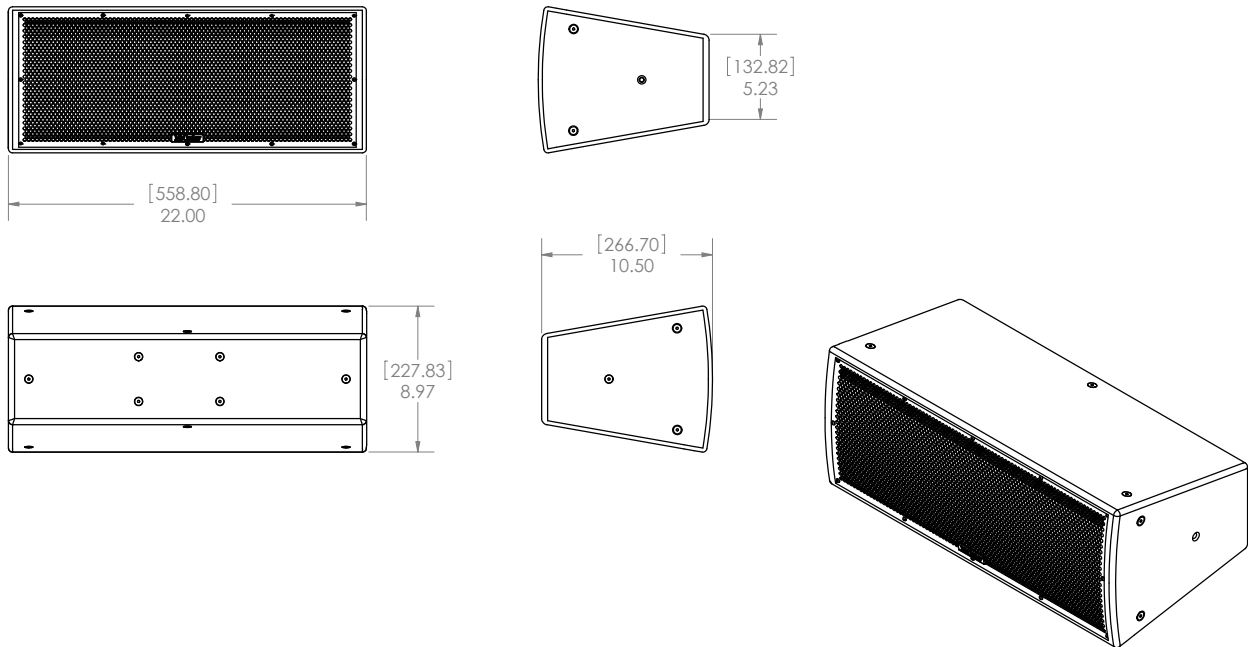
PERFORMANCE PARAMETERS

System Type	100°x90°, 2-Way, Full Range
Frequency Response -10dB +/- 3dB	65Hz - 20kHz 90Hz - 19kHz
Sensitivity Passive	95dB @ 2.83V 1 m
Maximum SPL Passive	(cont. / peak) 115dB / 121dB
Power Ratings Passive - AES	400w @ 8Ω

PHYSICAL PROPERTIES

Weight	28lbs / 12.7kgs
Dimensions inches centimeters	22.0 H x 9.0 W x 10.5 D 55.9 H x 22.9 W x 26.7 D
Enclosure Material	5/8" 12 ply Birch Laminate
Suspension	(14) Reinforced Hang Points (1) Vertical U-Bracket mounting location
Finish	Procoat™ Polyurea-Hybrid Weatherproofing (Black is standard, White and / or Custom Colors Available)
Transducers	(2) 6.5" LF Transducer (1) 1" Diaphragm Direct Radiating Driver
Connectors	Barrier Terminal Strip
Included Accessories	U-bracket with attachment hardware
Optional Accessories	Omni-Mount™, Swivel Mount

DIMENSIONAL ILLUSTRATIONS



ARCHITECTS AND ENGINEERS SPECIFICATIONS

The two-way full range loudspeaker system shall incorporate two 1.5" (38 mm) voice coil, 6.5" (165 mm) LF transducer and a 1" (25.4 mm) exit diaphragm direct radiating high frequency driver. The LF driver shall be mounted in an optimally vented enclosure tuned for maximum low frequency response. The high frequency transducer shall be with a nominal horizontal coverage pattern of 100°. The vertical coverage pattern of the horn shall be 90° and shall also provide constant directivity.

The systems frequency response shall vary no more than ± 3 dB from 90 Hz to 19 kHz measured on axis. The low frequency transducer shall produce a Sound Pressure Level (SPL) of 115 dB SPL at a distance of 1 meter with an electrical power input of 1 Watt, and shall be capable of producing a maximum peak output of 121 dB SPL on axis at 1 meter.

The passive loudspeaker shall handle 400 Watts of amplifier power (per ref Standard AES2-1984-r2003) and shall have a nominal impedance of 8 Ohms.

The loudspeaker enclosure shall have a maximum weight of 28 lbs. (12.7 kg) and shall measure 9.0" (229 mm) wide at front, 5.59" (142 mm) in width at rear, 22" (559 mm) in height, and 10.5" (267 mm) in depth. The enclosure sides shall taper at 10° from a maximum frontal width, narrowing to the rear. The structure of the enclosure shall be constructed of 12-ply void-free birch hardwood plywood and shall have a weather and wear resistant ProCoat(tm) polyurea hybrid finish.

Input connectors shall be two, four-terminal barrier strips, wired together in parallel. A total of fourteen 1/4"-20 UNC threaded mounting/suspension points (three on top, three on bottom, three per side and two back) shall be provided.

Four additional mounting points shall be provided on the top, bottom, and each side configured to accept an OmniMount brand, Series 60 bracket.

Components in the front of the enclosure are to be protected by a curved grill made from perforated steel that is coated with heat cured epoxy powder, and lined with acoustically transparent foam.

The 2-way full range loudspeaker shall be the McCauley Sound model AC66.