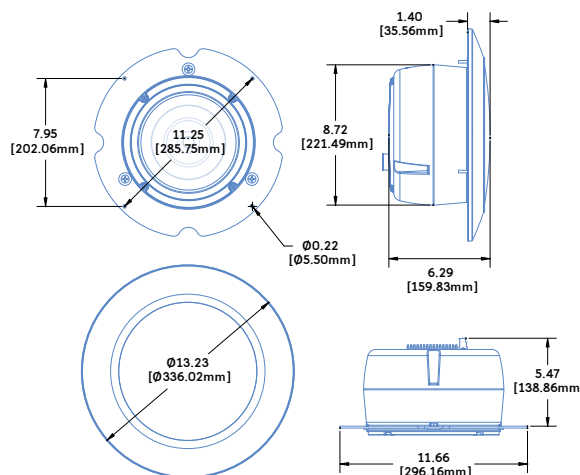


Stella-8C : Installation Loudspeaker



Also available in black and custom colors
(Backbox not included)



The Stella-8C ceiling mount installation loudspeaker is a self-powered loudspeaker engineered primarily for use in Meyer Sound's Constellation® acoustic systems. Housed in an aluminum die cast enclosure with a rear heat sink, the Stella-8C can be mounted flush in ceilings and walls with a standard backbox for 8-inch drivers (with a minimum depth of 6.5 inches).

The Stella-8C delivers similar acoustical performance as the Stella-4 and Stella-4C loudspeakers, but with expanded output capability and wider coverage. The unit's 8-inch coaxial cone driver and 0.75-inch tweeter produce a maximum peak SPL of 117 dB at 1 meter over a wide frequency range of 100 Hz to 18 kHz. The Stella-8C includes onboard amplification and signal processing and exhibits the same low distortion, high intelligibility, and flat frequency and phase

responses for which Meyer Sound loudspeakers are known. As a self-powered loudspeaker, the Stella-8C offers simplified installation for the multichannel output of Constellation systems or other installation applications.

Balanced audio and DC power are fed to the Stella-8C from a Phoenix™ 5-pin male connector on its rear panel. Meyer Sound's patented Iso-Input transformer-isolated differential input circuit yields a high common mode signal rejection ratio (CMRR). Powering the unit from a unipolar DC external power source reduces induced noise significantly, and eliminates the need for wiring conduits.

The required method for delivering balanced audio and DC power to the Stella-8C is with the Stella-188 external power supply. The single-space 19-inch rack unit accommodates up to eight Stella-8Cs (one per channel output). The

Stella-188 receives eight channels of balanced audio from its 25-pin D-sub connector and routes the audio, along with remote DC power, to its 5-pin Phoenix output connectors for greater wiring convenience. Cable runs to the Stella-8C of up to 150 feet are possible with just 1 dB of loss in peak SPL using 18 AWG wire.

The use of composite multiconductor cables (such as Belden® 1502 or equivalent) allows a single cable to carry both balanced audio and DC power from the Stella-188 to the Stella-8C. The Stella-8C's amplifier and signal processing circuits were designed to tolerate voltage drops of up to 30 percent, thereby accommodating light-gauge cables and lengthy cable runs. Internal energy storage circuits minimize the system's peak-to-average current demands, ensuring efficient use of the Stella-188's DC output.

FEATURES & BENEFITS

- Self-powered
- Wide-range frequency response
- Ultralow distortion
- Compact enclosure
- Exceptional SPL to size ratio
- Flush-mounts in ceilings and walls for low-profile installations
- Supports long cable runs with light-gauge cables

APPLICATIONS

- Constellation acoustic systems
- High-quality distributed systems in clubs and restaurants for paging and music
- Sound installations for gallery exhibits and museum displays

STELLA-8C SPECIFICATIONS

ACOUSTICAL	
Operating Frequency Range ¹	100 Hz – 18 kHz
Frequency Response ²	115 Hz – 16 kHz ±4 dB
Maximum Peak SPL ³	117 dB
Phase Response	2 kHz – 18 kHz ± 45°
Noise Floor	<20 dB A weighted
COVERAGE	
100°	
TRANSDUCER	
One 8" coaxial cone driver; one 0.75" metal dome tweeter	
AUDIO/POWER CONNECTOR	
Connector	Single Phoenix 5-pin male (two pins for DC power, three pins for balanced audio)
Power Wiring	Pin 1: 18 V DC – Pin 2: 18 V DC +
Audio Wiring	Pin 3: Chassis/earth Pin 4: Signal – Pin 5: Signal +
Input Impedance	20 kΩ balanced internal isolation (Iso-Input) transformer
Nominal Input Sensitivity	+6 dBV (2.0 V rms, 2.8 V peak) continuous average is typically the onset of limiting for noise and music
Input Level	Audio source must be capable of delivering +15 dBV (5.6 V rms, 8.0 V peak) into 600 Ω to produce the maximum peak SPL over the loudspeaker's operating bandwidth
DC POWER ^{2, 3}	
Voltage Requirement	12–18 V DC
Current Draw ¹	3.1 A average; 6.3 A peak
PHYSICAL	
Enclosure	Aluminum die cast
Mounting	Mounts flushs in ceilings and walls with standard 8-inch backbox with a minimum depth of 6.5"
Dimensions	11.66" (front OD) x 5.47" (depth without grille) 296.16 mm (front OD) x 138.86 mm (depth without grille)
Weight	9.0 lbs (4.1 kg) without backbox

NOTES:

1. Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
2. Measured free-field with pink noise at 1 meter, 1/3rd octave resolution.
3. Measured free-field with music and referred to 1 meter.



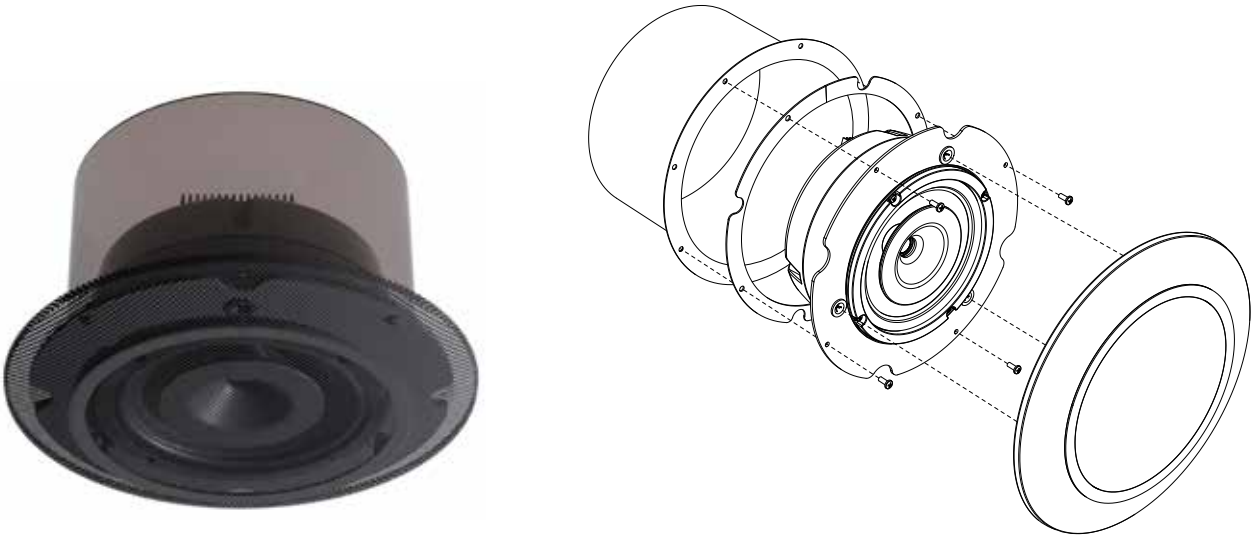
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ARCHITECT SPECIFICATIONS

The loudspeaker shall be self-powered and include a single 8-inch (203 mm) diameter coaxial transducer with a 0.75-inch (20 mm) metal dome tweeter. The loudspeaker shall incorporate a two-channel Class-D power amplifier, one channel each for the low-frequency cone driver and dome tweeter.

Performance specifications for a typical production unit shall be as follows, measured at 1/3-octave resolution: operating frequency range, 100 Hz to 18 kHz; phase response, 2 kHz to 18 kHz ±45 degrees; maximum peak SPL, 117 dB at 1 meter. Coverage shall be 100 degrees horizontal and vertical.

The loudspeaker shall be equipped with a single Phoenix 5-pin male connector (three pins for balanced audio and two pins for DC power). The audio input shall be electronically balanced with an internal isolation transformer (Iso-Input) with a 20-kOhm impedance and shall accept a nominal +6 dBV (2.0 V rms, 2.8 V peak) signal.

Power requirements for the loudspeaker shall be a Meyer Sound Stella-188 power supply, capable of delivering 18 V DC. Current draw for the loudspeaker during burst (<1 sec) shall be 3.1 A average and 6.3 A peak.

Loudspeaker components shall be housed in a sealed, aluminum die cast enclosure with a rear heat sink. The loudspeaker shall be capable of flush-mount installations in ceilings and walls with a standard backbox for 8-inch drivers (with a minimum depth of 6.5 inches). Dimensions shall be 13.23 inches (336 mm) in diameter and 6.29 inches (160 mm) deep (including the grille). Weight shall be 9.0 lbs (4.1 kg) without backbox.

The loudspeaker shall be the Meyer Sound Stella-8C.