SOVOX

M218E

SPECIFICATION

Passive cinema subwoofer with dual 18-inch drivers of large-bore voice coil in a single cabinet driven from one amplifier channel, for high-output LFE reproduction. Hall depth ≤ 16/22 m (1 unit), ≤ 22/31 m (2 units), ≤ 31/43 m (4 units)[1]

01 FEATURES ● Performance | ▲ Engineering | ■ Economy & Maintenance



- ● Two 18-inch woofers, each with a Φ99 mm voice coil and 26 mm winding, sharing one bass-reflex enclosure.
- ● Usable down to 25 Hz at –10 dB, keeping the deepest effects content inside the working band.
- ● Φ45 mm magnet-vent hole and 20-strand heat-resistant copper tinsel leads give a thermal path for sustained high-power work.
- ▲ 1095 × 690 × 554 mm, 71.6 kg — dual-18-inch output from one installation position that stays put once placed.
- ▲ Recommended 140 Hz low-pass to the screen channels and 27 Hz high-pass for driver protection, settable straight from the specification table.
- ■ Both woofers present a single 4 Ω load inside the cabinet, driven from one amplifier channel.

02 OVERVIEW

The M218E is a passive cinema subwoofer in the M Series for the LFE channel in large auditoriums. The system comprises two 18″ low-frequency drivers (99 mm voice coils) in an MDF bass-reflex enclosure with a PVC laminate finish, with a 35 Hz–500 Hz response (±3 dB), 25 Hz usable at –10 dB and a 4 Ω nominal load.

At 103 dB sensitivity and a 1600 W AES 100-hour rating it produces 135.0 dB rated maximum SPL on a continuous basis. Both drivers run as one 4 Ω load on one amplifier channel, concentrating output at a single installation position. A 140 Hz low-pass is recommended for integration, with a 27 Hz high-pass protecting the drivers. The cabinet measures 1095 × 690 × 554 mm and weighs 71.6 kg net.

03 APPLICATIONS

Cinema LFE channels · Large commercial auditoriums · Screening rooms · Large-format screens · Dome cinemas

04 SPECIFICATIONS

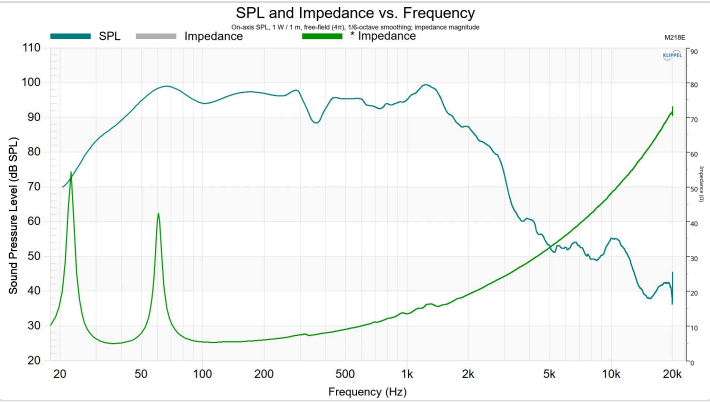
MODEL	M218E
PRODUCT TYPE	Cinema Subwoofer
SYSTEM TYPE	Passive Subwoofer
DRIVER CONFIGURATION	18" LF × 2
NOMINAL IMPEDANCE	4Ω
FREQUENCY RESPONSE (±3 DB @ 2Π)[2]	35 Hz–500 Hz
FREQUENCY RANGE (-10 DB @ 2Π)[2]	25 Hz–500 Hz
AES 100-HOUR POWER RATING[3]	1600W
AES 2-HOUR POWER RATING	2000W
PROGRAM POWER[4]	3200W
SENSITIVITY (2Π) @1W/1m	103dB
RATED MAXIMUM SPL /1m @ 2Π	135.0dB
CALCULATED MAXIMUM SPL /1m @ 2Π[5]	141.0dB
RECOMMENDED LPF	140 Hz@24 dB/oct
RECOMMENDED HPF	27 Hz@24 dB/oct
COVERAGE ANGLE (H×V)	—
ENCLOSURE TYPE	Cinema subwoofer enclosure
ENCLOSURE MATERIAL / FINISH	MDF · PVC laminate
INPUT CONNECTORS	Binding posts
MOUNTING OPTIONS	Floor-standing
DIMENSIONS W×H×D (mm)	W1095 × H690 × D554 mm
NET WEIGHT	71.6 kg

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05 FREQUENCY RESPONSE

On-axis frequency response, 1W/1 m, free-field, 1/6-octave smoothing[6]

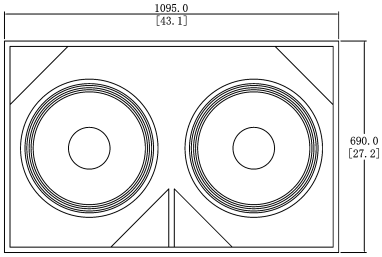
M218E



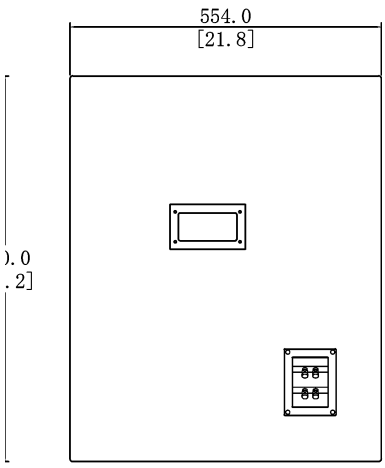
06 DIMENSIONAL DRAWINGS

Front, side and top views, dimensioned in millimetres

THREE EQUAL IMAGE FRAMES · FIT WITHOUT CROPPING



Front View



Side View



Top View

SPECIFICATION NOTES

1 Two length values are given: the first is the usable range on continuous power, the second on program power. Program power is a short-term maximum output and is not a level the system can sustain continuously. Target levels follow the SMPTE ST 202 / RP 200 cinema reference level: 95 dB for LFE plus 20 dB peak headroom, measured at the reference listening position (RLP); hall depth = listening distance x 1.5. Listening distance is derived from free-field distance attenuation. The continuous-power range uses the rated maximum SPL in this table; the program-power range uses the rated value +3 dB (program power being twice the continuous power). The calculated maximum SPL (rated +6 dB, short-term peak) is not used for these figures. Subwoofer arrays use non-coherent summation (+3 dB per doubling of cabinet count, +3 dB per doubling of power).
Screen loss, power compression, system limiting and room gain are not included - this is a theoretical estimate, not a measured guarantee; on-site verification is recommended. Operating beyond the recommended figure may result in, but is not limited to: dynamic compression, increased distortion, extraneous noise, and in severe cases equipment damage.

2 Low-frequency response and sensitivity specifications are referenced to half-space (2π) conditions, representative of typical cinema baffle-wall installation. Frequency-response graphs are measured in an anechoic free-field (4π) environment unless otherwise noted. In the low-frequency region the same loudspeaker measures about 6 dB higher under 2π than under 4π (in practice 3–6 dB depending on frequency and baffle conditions); this is a difference of measurement convention, not of performance.

3 Rating based on an IEC filtered random-noise test signal, band-limited 30 Hz–500 Hz, with a peak-to-average ratio of 6 dB

4 Recommended amplifier output at the applicable impedance should not exceed the program power, giving an unclipped output waveform while avoiding loudspeaker damage; an amplifier capable of at least the RMS continuous power (AES 100 h) is recommended to realize full loudspeaker performance. The actual amplifier match should be determined by calculation for the listening distance (see note 1).

5 Calculated maximum SPL is derived from the rated (continuous) power and half-space (2π) sensitivity and is a calculated, not measured, figure; at a 6 dB peak-to-average ratio it exceeds the rated value by 6 dB, representing short-term peak capability rather than a level the system can sustain.

6 The frequency-response graphs on this page are measured on-axis at 1 W/1 m in an anechoic free-field (4π) environment with 1/6-octave smoothing; the frequency response and sensitivity in the specification table are stated under half-space (2π) conditions. Lower readings in the low-frequency region of the graph therefore reflect the difference in convention rather than a difference in performance. 2π-format curves are available on request.

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