

SSOUNDS M-12W

12" two-way coaxial outdoor loudspeaker, IP56, 90° × 90°, 128 dB peak, with 70/100 V taps.

M stands for Modular.



AT A GLANCE

MODEL / SKU	CATEGORY
SS-M12W	Point Source Speakers
BRAND	DRIVE
SSOUNDS	Passive
POWER	CONDITION
400 W	New
APPLICATIONS	
OUTDOORINSTALLCOMMERCIALWEATHERPROOF	

OVERVIEW

Courtyards, terraces, pool decks and sports grounds need a loudspeaker that lives in the weather and still has real output. The M-12W is a two-way coaxial cabinet with a 12" low-frequency driver and a 1" compression driver on one axis, crossed at 1.5 kHz, rated IP56. It covers 90° by 90°, reaches 55 Hz at –10 dB and 128 dB peak at 1 m, and runs at 8 Ω or on a 70 V or 100 V line through its transformer taps. W marks the weatherised model, as it does on the LC columns.

- 12" LF with 1" coaxial compression driver
- 90° × 90° coverage
- 55 Hz to 20 kHz (–10 dB), 80 Hz to 20 kHz (±3 dB)
- 96 dB sensitivity, 122 dB continuous, 128 dB peak at 1 m
- 400 W continuous, 1,600 W peak, 8 Ω
- 70 V and 100 V transformer taps
- IP56

SPECIFICATIONS

GENERAL

Type	Passive 2-way coaxial outdoor loudspeaker
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ACOUSTIC PERFORMANCE

Frequency range ²	55 Hz - 20 kHz (-10 dB)
Frequency response ²	80 Hz - 20 kHz (±3 dB)
Coverage ⁴	90° × 90°
Sensitivity ³	96 dB (2.83 V @ 1 m)
Maximum SPL ¹	122 dB continuous · 128 dB peak @ 1 m

TRANSDUCERS & COMPONENTS

Low frequency	1 × 12", 3" voice coil
High frequency	1 × 1" compression driver, coaxial

ELECTRICAL

Crossover	1.5 kHz, 18 dB/octave
Power handling ⁵	400 W continuous · 1,600 W peak
Nominal impedance ⁶	8 Ω
Transformer taps	70 V: 200 / 100 / 50 / 25 W · 100 V: 200 / 100 / 50 W

ENVIRONMENT

Ingress protection	IP56
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NOTES

- 1. Maximum SPL is the peak level at 1 m, driven with pink noise at crest factor 4 to the clipping point of the recommended amplifier, with the SSOUNDS system preset applied. Full-range enclosures are specified under free-field conditions; figures marked half-space are specified over a reflecting plane, the condition subwoofers are deployed in, which adds approximately 6 dB.
- 2. Frequency response is specified on axis at 1 m in a free field. The tolerance the figure is referenced to is stated alongside it; where no tolerance is given, the figure is the -6 dB bandwidth.
- 3. Sensitivity is specified at 1 W into the nominal impedance at 1 m on axis, averaged across the pass band of the enclosure.
- 4. Coverage angles are nominal -6 dB values averaged across the pass band. Per-octave directivity data is available from SSOUNDS system design support for prediction and modelling.
- 5. Power handling is rated to AES2 using pink noise with a 6 dB crest factor over a two-hour period. Programme power is twice the AES rating; peak power is four times.
- 6. Nominal impedance is the manufacturer's rating for amplifier load calculation; minimum impedance across the operating band may be lower.
- 7. All figures are typical values for production units specified under the conditions above. Individual units may vary within published tolerances.

Directivity (isobars / balloon). Measured directivity data (isobars, balloon and GLL/CLF for EASE) is in preparation. We publish measured polars only. Contact us for the current measurement status of this model.

DOWNLOADS & DATA FILES

SSOUNDS M-12W: User Manual

MANUAL

Loudspeaker data files for prediction software (GLL / CLF for EASE), 2D and 3D drawings and certification documents are issued on request. Contact support@s-soundspro.com and we will send the current release for this model.

ARCHITECTURAL & ENGINEERING SPECIFICATION

The processor shall be of the SSOUNDS M-12W type, configured as a passive 2-way coaxial outdoor loudspeaker. The processor shall incorporate a low-frequency section of 1 × 12", 3" voice coil, a high-frequency section of 1 × 1" compression driver, coaxial. The processor shall be capable of meeting the following performance criteria: a frequency response of 55 Hz – 20 kHz (–10 dB); a maximum sound pressure level of 122 dB continuous, 128 dB peak @ 1 m; a sensitivity of 96 dB (2.83 V @ 1 m); nominal coverage of 90° × 90°. Electrically the processor shall provide a power handling of 400 W continuous, 1,600 W peak, a nominal impedance of 8 Ω, a crossover at 1.5 kHz, 18 dB/octave. The processor shall be covered by the manufacturer's two (2) year limited warranty and shall be supplied by SSOUNDS or an SSOUNDS-authorized distributor. No alternate shall be accepted without prior written approval of the consultant or specifying engineer.

SAFETY & COMPLIANCE

Read this section before specifying, installing or operating this product. It summarises the safety requirements set out in full in the product documentation supplied with the unit; where the two differ, the product documentation takes precedence.

SUSPENSION & RIGGING

Overhead suspension is potentially hazardous and must be carried out only by trained and competent personnel using SSOUNDS-approved hardware, within the working load limits and array configurations published in the relevant SSOUNDS rigging documentation. Never exceed the stated number of enclosures per array or the stated splay limits. Inspect all rigging components, pins and retaining clips before every deployment and withdraw from service any component that is deformed, corroded or of unknown history. Secondary safety attachment is required where local regulation calls for it. SSOUNDS accepts no liability for systems suspended using non-approved hardware or outside published limits.

SOUND PRESSURE LEVEL & HEARING

This equipment is capable of producing sound pressure levels that cause permanent hearing damage. Do not operate at high level in close proximity, and ensure that operators, performers and audience exposure complies with applicable occupational noise-exposure regulation. Provide hearing protection where exposure limits may be exceeded.

ENVIRONMENT & MECHANICAL

Unless a published IP rating states otherwise, this product is intended for indoor use or for outdoor use under cover, and must be protected from rain, standing water and prolonged direct sun. Ensure ventilation openings are unobstructed. Stack, pole-mount and transport only as described in the product documentation, and secure the product against toppling wherever the public has access.

DISPOSAL

At end of life, dispose of the product and any packaging in accordance with local regulation for electrical and electronic equipment. Do not dispose of electronic components in general waste.

LIMITED WARRANTY: TWO (2) YEARS

SSOUNDS products are warranted against defects in materials and workmanship for a period of two (2) years from the original date of purchase by the end user. Within that period SSOUNDS will, at its option, repair or replace the defective item with no charge for parts or labour. The item must be adequately packaged and dispatched, carriage pre-paid, to SSOUNDS or an SSOUNDS-authorised service centre, accompanied by proof of purchase and a returns reference issued in advance by SSOUNDS. Unauthorised repair, modification or removal of serial-number labelling voids this warranty.

THIS WARRANTY DOES NOT COVER

- Cosmetic wear, finish, grille cloth, paintwork and consumable parts.
- Damage caused by misuse, abuse, accident, neglect, or operation outside the published ratings on this sheet.
- Damage caused by transport or handling after delivery, or by inadequate packaging on return.
- Damage caused by mains or generator supply faults (over-voltage, under-voltage, phase imbalance, surge or incorrect earthing) or by lightning.
- Water, dust or corrosion ingress on products not carrying a published IP rating for the conditions of use.
- Damage resulting from amplification or processing outside the recommended configuration on this sheet, or from third-party presets.
- Products not purchased from SSOUNDS or an SSOUNDS-authorised distributor.

This warranty is in addition to, and does not affect, any statutory rights the purchaser may have under applicable consumer law. It is the sole warranty offered; no other warranty, express or implied, is given.

Warranty claims and returns references: support@s-soundspro.com · +44 20 3769 6537

LEGAL NOTICE

All information on this data sheet is subject to change without notice. SSOUNDS reserves the right to alter specification, design and construction in the course of continuous product development.

Specifications, drawings and images are provided for guidance in system design and tender documentation. Where a figure is critical to a design, confirm it in writing with SSOUNDS before committing to a specification.

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S SOUNDS PRO LTD
82a James Carter Road, Mildenhall, IP28 7DE, United Kingdom
+44 20 3769 6537 · support@s-soundspro.com

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