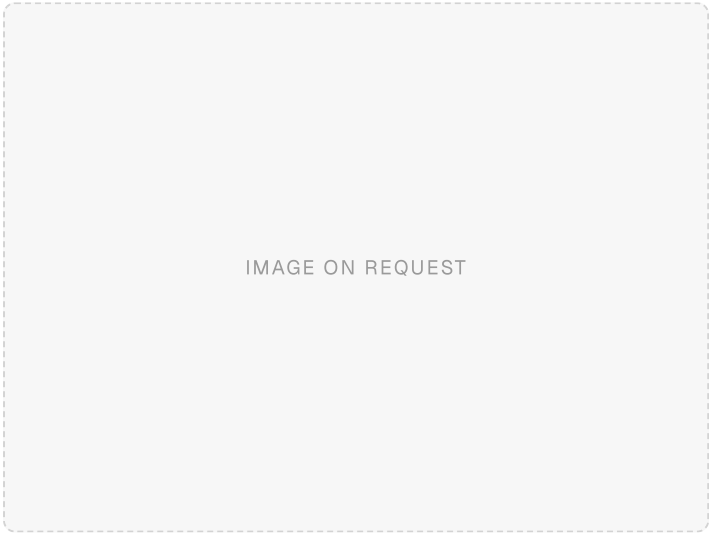


SSOUNDS XTO S218F

Flown dual-18" subwoofer module of the XTO System, riding the shared XTO track above or beside the main hangs.

Part of the XTO System. The flown dual-18. Rides the shared track above or beside the main hangs, cardioid ready. XTO stands for Xtended Touring Output. Full system documentation at s-soundspro.com/systems/xto.



AT A GLANCE

MODEL / SKU	CATEGORY
SS-XTO-S218F	Subwoofers
BRAND	DRIVE
SSOUNDS	Passive
CONDITION	
New	
APPLICATIONS	
TOURING	STADIUM
SUBWOOFER	CARDIOID

OVERVIEW

The XTO S218F is the flying version of the XTO S218. Same dual-18" acoustic design, same cardioid-ready configuration, different rigging: it takes the shared XTO track, so it flies above the main hang or in its own column beside it without a separate rigging language or a separate spares list.

Flying the low end rather than stacking it is what buys you even coverage front to back in a stadium bowl, and a cardioid flown column is what keeps it off the stage and out of the seats behind the array. Ground-stacked arcs and end-fire blocks still have their place, and the S218 remains the box for that; most large systems end up running both.

- Flown dual-18" subwoofer module of the XTO System
- Rides the shared XTO track above or beside the main hangs
- Cardioid ready
- Same acoustic design as the ground-stacked XTO S218
- One D24X channel per subwoofer

TECHNOLOGIES

 DYNACONTROL	Holds the tuned tonal balance as voice coils heat under sustained output.
 CARDIOSTEER	Steerable cardioid arrays that direct low-frequency energy forward.
 FASTSET	Steel and aluminium rigging with captive titanium pins and detented splay for repeatable array geometry.
 SNET	Networked control and monitoring for every amplifier and processor in the system.

SPECIFICATIONS

GENERAL

Type	Bandpass dual-18" flown touring subwoofer
Certifications	CE · TÜV · EAC · WEEE

ACOUSTIC PERFORMANCE

Frequency response ²	20 Hz - 100 Hz (-10 dB)
Deployment	Flown column · steerable cardioid when arrayed
Sensitivity ³	103 dB SPL nominal (1 W @ 1 m)
Maximum SPL ¹	143 dB peak @ 1 m (half-space)

TRANSDUCERS & COMPONENTS

Low frequency	2 × 18" cone drivers, 5" coil
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ELECTRICAL

Recommended amplifier power ⁴	4,800 W
Nominal impedance ⁵	4 Ω
Crossover	System low-pass 85 Hz (60 - 100 Hz selectable in the system DSP)

CONNECTORS & I/O

Connectors	2 × NL4 speakON (in / link)
Pin map	1+/1- SUB · 2+/2- not linked

RIGGING & MOUNTING

System	Shared XTO fly track · 3-point captive pins · flies above or beside the main hang
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PHYSICAL & CONSTRUCTION

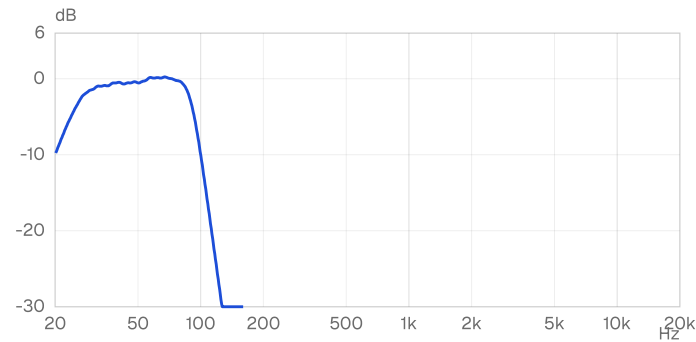
Enclosure	18 mm Baltic birch · Polyurea finish
Grille	Powder-coated perforated steel with acoustic cloth backing
Handles	2 side recessed
Colour	Black (custom RAL on request)

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. Recommended amplifier power is the amplifier output SSOUNDS specifies for this enclosure, driven with the SSOUNDS system preset. It guides amplifier selection and is not an AES power-handling rating for the transducers.
5. Nominal impedance is the manufacturer's rating for amplifier load calculation; minimum impedance across the operating band may be lower.
6. All figures are typical values for production units specified under the conditions above. Individual units may vary within published tolerances.

RESPONSE

FREQUENCY RESPONSE



Frequency response: 20 Hz to 100 Hz (-10 dB) · 1/24-octave smoothed

Plot conditions. Curves are generated by the SSOUNDS engineering toolchain from this product's specification. Frequency response is shown 1/24-octave smoothed, normalised to the midband reference, with the passband corners at the stated tolerance; response varies within ± 1 dB across the passband with a subtle shelf in the top octave. Magnitude slopes are 24 dB/octave beyond the passband corners. The beamwidth curve shows the -6 dB included angle: nominal coverage holds down to the pattern-control limit set by the cabinet width ($f \approx c/w$) and widens below it.

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 XTO S218F: User Manual](#)

MANUAL

[SSOUNDS XTO S218F: Technical Data Sheet](#)

DATASHEET

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

SYSTEM OPERATION

Recommended: SSOUNDS D24X, one channel per XTO S218F (4 Ω) with the S218 preset loaded. Cardioid presets are supplied for three- and four-box columns.

A flown subwoofer column is normally run as its own zone, so its arrival time and its cardioid rear rejection can be set independently of the ground-stacked arcs.

ARCHITECTURAL & ENGINEERING SPECIFICATION

The subwoofer shall be of the SSOUNDS XTO S218F type, configured as a bandpass dual-18" flown touring subwoofer. The subwoofer shall incorporate a low-frequency section of 2 $\times$ 18" cone drivers, 5" coil. The subwoofer shall be capable of meeting the following performance criteria: a frequency response of 20 Hz – 100 Hz (–10 dB); a maximum sound pressure level of 143 dB peak @ 1 m (half-space); a sensitivity of 103 dB SPL nominal (1 W @ 1 m). Electrically the subwoofer shall provide a nominal impedance of 4 Ω , a crossover at System low-pass 85 Hz (60 – 100 Hz selectable in the system DSP). The unit shall be passive. Connection shall be by 2 $\times$ NL4 speakON (in / link). The subwoofer shall be constructed of 18 mm Baltic birch, Polyurea finish. The subwoofer 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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SS-DS-XT0-S218F-EN-A4 · Rev. 2609 · Issued 09 Sept 2026