SX218
Dual-driver, direct radiating subwoofer

Features

• Dual-driver, direct radiating subwoofer
• 2 x 18" (460mm)/4" (100mm) voice coil, long excursion, ferrite magnet, waterproof cone
• Very high output capability
• Tour-grade plywood enclosure with flying inserts

Applications

• Touring sound reinforcement for small and medium-size venues
• Fixed installations in concert halls, theatres, ballrooms and HoW
• Sports stadium, arena installations & corporate AV events
• Outdoor restaurant, bar and hotel entertainment areas
• Concourses and Theme Parks

The SX218 achieves the ultimate in subwoofer performance for the most demanding applications – delivering very high output levels and superb transient performance with minimal distortion. Please note this product has been updated since January 2019 from an earlier iteration.

With an operating range of 35Hz-150Hz ± 3dB, it houses dual 18" long-excursion (460mm)/4" (100mm) voice coil drivers with water-resistant cones and triple roll surrounds. Each driver is rated to handle 1000 watts AES, and has a magnet structure and suspension engineered for maximum linear excursion.

The enclosure is constructed from multi-laminate birch ply and finished with a durable polyurea coating. Eight reflex ports provide a large frontal area to reduce turbulent air noise, and a perforated steel grille protects the drivers from damage. SX218 features a M20 pole mount insert for added versatility in deployment.

The product is supplied as standard without cabinet wheels, but they are available as an accessory.

By adding the input board cover accessory, SX218 is fully weather resistant and suitable for permanent outdoor usage.
SX218
Dual-driver, direct radiating subwoofer

Technical Specifications

TYPE
Dual-driver, direct radiating subwoofer

FREQUENCY RESPONSE (1)
35Hz – 150Hz ±3dB, -10dB @ 30Hz

DRIVER
2 x 18" (460mm)/4" (100mm) voice coil, long excursion, ferrite magnet, waterproof cone

RATED POWER (2)
2000W AES, 8000W peak

SYSTEM AMPLIFIER
iKON iK42

SENSITIVITY (10)
105dB

MAXIMUM SPL (5)
144dB peak

NOMINAL IMPEDANCE
2 x 8 Ohms

DISPERSION (-6dB)
Omnidirectional/or Cardioid (paired)

ENCLOSURE
Multi-laminate birch/poplar ply

FINISH
Textured black paint

PROTECTIVE GRILLE
Black perforated Zintec

CONNECTORS
2 x NL4

PIN CONNECTIONS (INPUT)
LF1: 1+, 1- LF2: 2+, 2-

PIN CONNECTIONS (LINK)
LF1: 1+, 1- LF2: 2+, 2-

FITTINGS
Two skids on base, with mating channels on top
4 x bar handles, 2 on each side
4 x fittings for optional transit cover
M20 Pole mount insert
16 x M8 inserts for optional castors

DIMENSIONS (INCL SKIDS)
(W) 1093mm x (H) 537mm x (D) 792mm
(36.2in including castors)

WEIGHT
Weight 98.5kg (217lbs) w/o castors,
102kg (225lbs) with castors

ACCESSORIES
16 x M8 inserts for optional castors,
Input Board Cover, Transit Cover

Notes
(1) Measured on-axis in half (2pi) space at 2 metres, then referred to 1 metre.
(3) Measured in half (2pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
(4) Measured in half (2pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
(5) Measured on-axis in open (4pi) space at 2 metres, then referred to 1 metre.
(6) Measured in open (4pi) space at 2 metres with 1 watt input, using band limited pink noise, then referred to 1 metre.
(7) Measured in open (4pi) space at 2 metres using band limited pink noise, then referred to 1 metre.
(8) Measured in open (4pi) space at 2 metres with 2.83V input, using band limited pink noise, then referred to 1 metre.
(9) Calculated at 1 metre.
(10) Measured in half (2pi) space at 2 metres with 2.83V input, using band limited pink noise, then referred to 1 metre.

Optional Castors shown fitted
# SX218

## Dual-driver, direct radiating subwoofer

### System Amplifier Technical Specifications

#### SX218 Amplifier

**General**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Four-channel Class D amplifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER OUTPUT</td>
<td>4 x 5000W into 2 ohms, all channels driven</td>
</tr>
<tr>
<td></td>
<td>4 x 3000W into 4 ohms, all channels driven</td>
</tr>
<tr>
<td></td>
<td>4 x 1500W into 8 ohms, all channels driven</td>
</tr>
<tr>
<td>DIGITAL SIGNAL PROCESSING</td>
<td>96kHz DSP on all inputs and outputs</td>
</tr>
<tr>
<td>COOLING</td>
<td>Dual vari-speed fans, front-to-back airflow</td>
</tr>
<tr>
<td>MAXIMUM AMBIENT TEMPERATURE</td>
<td>40°C (104°F)</td>
</tr>
</tbody>
</table>

**Audio Inputs/Outputs**

- ANALOGUE IN/LINK (4 CHANNELS): 4 x female, 4 x male Neutrik™ XLR
- ANALOGUE INPUT IMPEDANCE: 20kΩ balanced to ground
- MAXIMUM ANALOGUE INPUT LEVEL: +20dBu
- NOMINAL SYSTEM GAIN: 32dB
- AES3 IN/LINK (2 CHANNELS): 1 x female, 1 x male Neutrik™ XLR, balanced
- DANTE™ (4 CHANNELS): 2 x shielded RJ45, primary and secondary
- AMPLIFIER OUTPUTS: 4 x Neutrik Speakon™ NL4

**Control and Monitoring Network**

- PROTOCOL: Ethernet
- CONTROL APPLICATION: Martin Audio VU-NET™

**Power Supply**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>High performance Series Resonant</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC INPUT OPERATING RANGE</td>
<td>85 – 240V – AC, 47 – 63Hz</td>
</tr>
<tr>
<td>MAINS INRUSH CURRENT</td>
<td>6A at 115V, 12A at 230V (max for &lt;10ms)</td>
</tr>
<tr>
<td>MAINS CONNECTOR</td>
<td>Neutrik 32A Powercon™</td>
</tr>
</tbody>
</table>

**Physical**

- DIMENSIONS: (W) 482 x (H) 2U/88mm x (D) 441mm
- WEIGHT: 12.5kg (27.5lbs) incl handles and optional rear support

---

#### iK42 Amplifier

**General**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Eight-channel Class D amplifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER OUTPUT</td>
<td>8 x 1250W into 2 ohms, all channels driven</td>
</tr>
<tr>
<td></td>
<td>8 x 1250W into 4 ohms, all channels driven</td>
</tr>
<tr>
<td></td>
<td>8 x 1250W into 8 ohms, all channels driven</td>
</tr>
<tr>
<td>DIGITAL SIGNAL PROCESSING</td>
<td>96kHz DSP on all inputs and outputs</td>
</tr>
<tr>
<td>COOLING</td>
<td>Dual vari-speed fans, front-to-back airflow</td>
</tr>
<tr>
<td>MAXIMUM AMBIENT TEMPERATURE</td>
<td>40°C (104°F)</td>
</tr>
</tbody>
</table>

**Audio Inputs/Outputs**

- ANALOGUE IN/LINK (4 CHANNELS): 4 x female, 4 x male Neutrik™ XLR
- ANALOGUE INPUT IMPEDANCE: 20kΩ balanced to ground
- MAXIMUM ANALOGUE INPUT LEVEL: +20dBu
- NOMINAL SYSTEM GAIN: 32dB
- AES3 IN/LINK (2 CHANNELS): 1 x female, 1 x male Neutrik™ XLR, balanced
- DANTE™ (4 CHANNELS): 2 x shielded RJ45, primary and secondary
- AMPLIFIER OUTPUTS: 4 x Neutrik Speakon™ NL4

**Control and Monitoring Network**

- TOPOLOGY: Ethernet
- CONTROL APPLICATION: Martin Audio VU-NET™

**Power Supply**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>High performance Series Resonant</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC INPUT OPERATING RANGE</td>
<td>85 – 240V – AC, 47 – 63Hz</td>
</tr>
<tr>
<td>MAINS INRUSH CURRENT</td>
<td>6A at 115V, 12A at 230V (max for &lt;10ms)</td>
</tr>
<tr>
<td>MAINS CONNECTOR</td>
<td>Neutrik 32A Powercon™</td>
</tr>
</tbody>
</table>

**Physical**

- DIMENSIONS: (W) 482 x (H) 2U/88mm x (D) 441mm
- WEIGHT: 12.5kg (27.5lbs) incl handles and optional rear support

---

#### iK81 Amplifier

**General**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Eight-channel Class D amplifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER OUTPUT</td>
<td>8 x 1250W into 2 ohms, all channels driven</td>
</tr>
<tr>
<td></td>
<td>8 x 1250W into 4 ohms, all channels driven</td>
</tr>
<tr>
<td></td>
<td>8 x 1250W into 8 ohms, all channels driven</td>
</tr>
<tr>
<td>DIGITAL SIGNAL PROCESSING</td>
<td>96kHz DSP on all inputs and outputs</td>
</tr>
<tr>
<td>COOLING</td>
<td>Dual vari-speed fans, front-to-back airflow</td>
</tr>
<tr>
<td>MAXIMUM AMBIENT TEMPERATURE</td>
<td>40°C (104°F)</td>
</tr>
</tbody>
</table>

**Audio Inputs/Outputs**

- ANALOGUE IN/LINK (4 CHANNELS): 4 x female, 4 x male Neutrik™ XLR
- ANALOGUE INPUT IMPEDANCE: 20kΩ balanced to ground
- MAXIMUM ANALOGUE INPUT LEVEL: +20dBu
- NOMINAL SYSTEM GAIN: 32dB
- AES3 IN/LINK (2 CHANNELS): 1 x female, 1 x male Neutrik™ XLR, balanced
- DANTE™ (4 CHANNELS): 2 x shielded RJ45, primary and secondary
- AMPLIFIER OUTPUTS: 4 x Neutrik Speakon™ NL4

**Control and Monitoring Network**

- TOPOLOGY: Ethernet
- CONTROL APPLICATION: Martin Audio VU-NET™

**Power Supply**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>High performance Series Resonant</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC INPUT OPERATING RANGE</td>
<td>85 – 240V – AC, 47 – 63Hz</td>
</tr>
<tr>
<td>MAINS INRUSH CURRENT</td>
<td>6A at 115V, 12A at 230V (max for &lt;10ms)</td>
</tr>
<tr>
<td>MAINS CONNECTOR</td>
<td>Neutrik 32A Powercon™</td>
</tr>
</tbody>
</table>

**Physical**

- DIMENSIONS: (W) 482 x (H) 2U/88mm x (D) 441mm
- WEIGHT: 12.5kg (27.5lbs) incl handles and optional rear support

---

**Trade Descriptions Act**

Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice. Martin Audio is committed to refining state of the art sound reinforcement, combining in-depth product and field applications research with advanced manufacturing techniques. Every Martin Audio product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.