SX118
Compact, direct radiating subwoofer

Features

- Compact, direct radiating subwoofer
- 18" (460mm)/4" (100mm) voice coil, long excursion, ferrite magnet, waterproof cone
- High output capability
- Tour-grade plywood enclosure with flying inserts

Applications

- Live sound reinforcement
- Theatre sound
- Corporate AV events

The SX118 is a compact, high performance subwoofer that extends the low frequency operating range of the system to 47Hz and provides exceptional low frequency output for such a compact enclosure. An ideal partner for the WPM, it features a long-exursion 18" (460mm)/4" (100 mm) voice coil driver with a water-resistant cone and triple roll surround in a compact reflex enclosure.

The design of the 18" driver maximises output while minimising power compression and distortion, and the four reflex ports have a large frontal area to reduce turbulent air noise at very high levels. The enclosure is constructed from multi-laminate birch ply, finished with a durable textured coating and equipped with a steel grille, twin grab handles, skids, flying inserts for installation and a threaded pole socket for pole-mounting up to 4 WPM enclosures as a simple plug-and-play system.
# SX118
## Compact, direct radiating subwoofer

### Technical Specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Compact, direct radiating subwoofer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Response (1)</td>
<td>47Hz – 150Hz ±3dB, -10dB @ 41Hz</td>
</tr>
<tr>
<td>Driver</td>
<td>18” (460mm)/4” (100mm) voice coil, long excursion, ferrite magnet, waterproof cone</td>
</tr>
<tr>
<td>Rated Power (2)</td>
<td>1000W AES, 4000W peak</td>
</tr>
<tr>
<td>System Amplifier</td>
<td>iKON iK42, iK81</td>
</tr>
<tr>
<td>Sensitivity (10)</td>
<td>8 ohms</td>
</tr>
<tr>
<td>Maximum SPL (9)</td>
<td>138dB peak</td>
</tr>
</tbody>
</table>

#### Notes

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

### TYPE

**Compact, direct radiating subwoofer**

### FREQUENCY RESPONSE (1)

47Hz – 150Hz ±3dB, -10dB @ 41Hz

### DRIVER

18” (460mm)/4” (100mm) voice coil, long excursion, ferrite magnet, waterproof cone

### RATED POWER (2)

1000W AES, 4000W peak

### SYSTEM AMPLIFIER

iKON iK42, iK81

### SENSITIVITY (10)

8 ohms

### MAXIMUM SPL (9)

138dB peak

### ENCLOSURE

Multi-laminate birch/poplar ply

### FINISH

Textured black paint

### PROTECTIVE GRILLE

Black perforated steel

### CONNECTORS

2 x NL4

### PIN CONNECTIONS (INPUT)

LF: +1, -1 Link through: +2, -2

### PIN CONNECTIONS (LINK)

LF: +1, -1 Link through: +2, -2

### FITTINGS

Two skids on base, with mating channels on top

Four rear-mounted 100mm (4in) castors

M20 top-mounted thread plate for pole mounting

16 x M10 mounting points

2 x bar handles, 1 on each side

4 x fittings for optional transit cover

### DIMENSIONS (INCL SKIDS)

(W) 600mm x (H) 509mm x (D) 632mm

(W) 23.62in x (H) 20.04in x (D) 24.86in

(F) 29.90in including castors

### WEIGHT

47kg (104lbs)

### ACCESSORIES

Transit cover

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System Amplifier Technical Specifications

### iK42 Amplifier

**General**
- **TYPE**: Four-channel Class D amplifier
- **TOTAL OUTPUT POWER**: 20,000 Watts RMS, all channels driven
- **DIGITAL SIGNAL PROCESSING**: 96kHz DSP on all inputs and outputs
- **COOLING**: Dual vari-speed fans, front-to-back airflow
- **MAXIMUM AMBIENT TEMPERATURE**: 40°C (104°F)

**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**
- **TYPE**: High performance Series Resonant
- **AC INPUT OPERATING RANGE**: 85 – 240V ~ AC, 47 - 63Hz
- **MAINS INRUSH CURRENT**: 6A at 115V, 12A at 230V (max for ~10ms)
- **MAINS CONNECTOR**: Neutrik 32A Powercon™

**Physical**
- **DIMENSIONS**: (W) 483 x (H) 2U/89mm x (D) 357mm
- **WEIGHT**: 12.5kg (27.5lbs)

### iK81 Amplifier

**General**
- **TYPE**: Eight-channel Class D amplifier
- **TOTAL OUTPUT POWER**: 10,000 Watts RMS, all channels driven
- **DIGITAL SIGNAL PROCESSING**: 96kHz DSP on all inputs and outputs
- **COOLING**: Dual vari-speed fans, front-to-back airflow
- **MAXIMUM AMBIENT TEMPERATURE**: 40°C (104°F)

**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**
- **TYPE**: High performance Series Resonant
- **AC INPUT OPERATING RANGE**: 85 – 240V ~ AC, 47 - 63Hz
- **MAINS INRUSH CURRENT**: 6A at 115V, 12A at 230V (max for ~10ms)
- **MAINS CONNECTOR**: Neutrik 32A Powercon™

**Physical**
- **DIMENSIONS**: (W) 483 x (H) 2U/89mm x (D) 357mm
- **WEIGHT**: 12.5kg (27.5lbs)

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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.