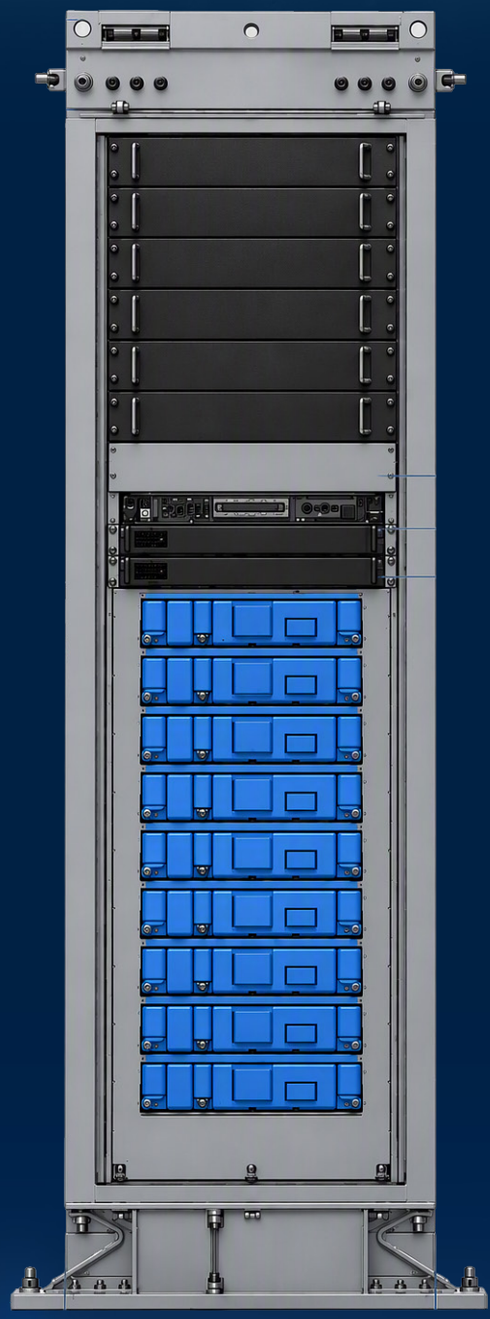
nautelsonar NS60-1 Low Frequency Active Sonar Amplifier

+1.902.823.3900 nautelsonar@nautel.com nautelsonar.com

OVERVIEW

The NS60-1 is a compact, high-power sonar amplifier designed for active towed array sonar systems. Delivering 60 kW continuous output from 800 Hz to 12 kHz, it combines modular 10 kW Class D amplifier stages, high-density capacitor energy storage, and advanced SMPS technology to provide efficient, reliable high-energy acoustic transmission, while enabling efficient power management. The system features hot-swappable modules for rapid maintenance, and offers IP-based remote control, local front panel user interface, and integrated BITE functionality.



Key Features

- 60 kW power output
- 800 Hz to 12 kHz operation
- Modular hot-swappable 10 kW amplifier units
- Integrated energy storage capacitor banks
- IP-based control and monitoring

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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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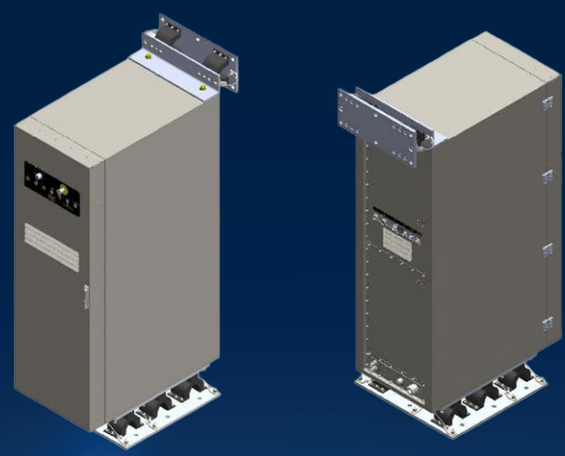
General Specifications

Output Power	600W - 60kW 1 channel amp
Frequency range	800 Hz to 12 kHz,
Input power	440 VAC, 3PH/ 115 VAC, 1PH
Nominal Output impedance	40 ohms (Tailored per contract)
Full power duty cycle	< 20%
Control & Monitoring	Redundant TCP/IP
Efficiency at Max Power	>85%
Power Factor	>0.90
Amplifier Dimensions (inc shock mounts)	Height 2197 mm (87”),Width 610 mm (24”), Depth 1224 mm (48”)
Amplifier weight	< 500 kg
Ambient	0-40C 95% Relative Humidity Non-condensing
Cooling	Air Cooled
MTTR	30 min

Qualifications

Shock	MIL-DTL-901E MIL-STD-810H
Vibration	MIL-STD-167-1A MIL-STD-810H
Shipboard Power	MIL-STD-1399 300B
EM Interference	MIL-STD-461H
Environmental	MIL-STD-810H



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