# nautelsonar NS30-1 Low Frequency Active Sonar Amplifier

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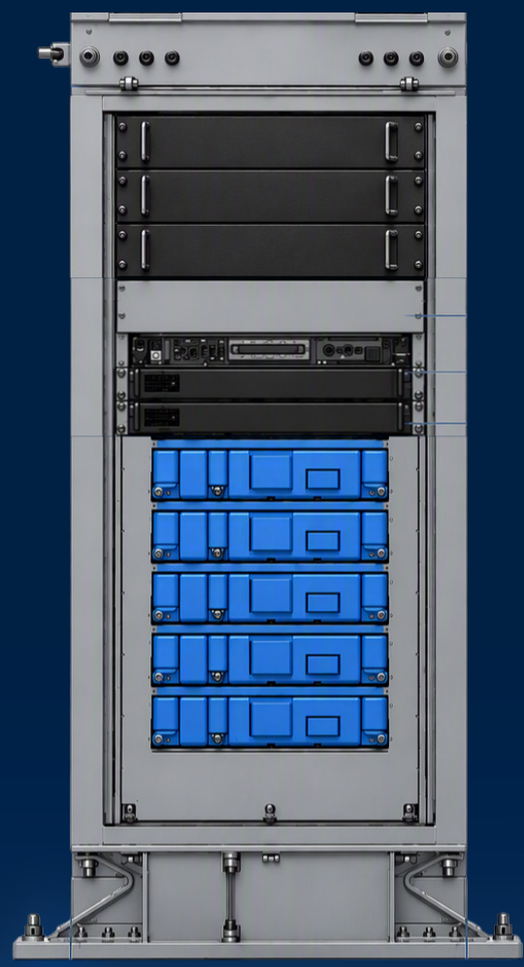
## OVERVIEW

The NS30-1 is a compact, high-power sonar amplifier designed for active towed array sonar systems. Delivering 30 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

- 30 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



the power to see

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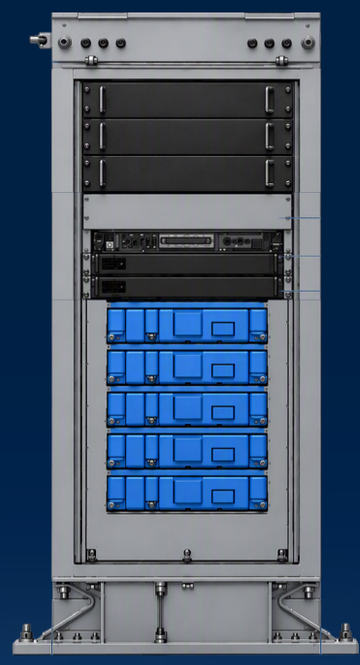
## General Specifications

| | |
|---|---|
| Output Power | 300W - 30kW 1 channel amp |
| Frequency range | 800 Hz to 12 kHz, |
| Input power | 440 VAC, 3PH/ 115 VAC, 1PH |
| Nominal Output impedance | 80 ohms (Tailored per contract) |
| Full power duty cycle | < 20% |
| Max Power Duration | 12 secs (24sec option available) |
| E iciency at Max Power | >85% |
| Power Factor | >0.90 |
| Amplifier Dimensions ( inc shock mounts) | Height 1320 mm (52”),Width 610 mm (24”), Depth 1224 mm (48”) |
| Amplifier weight | < 300 kg |
| Ambient | 0-40C 95% Relative Humidity Non-condensing |
| Cooling | Air Cooled |
| MTTR | 30 min |
| Control & Monitoring | Redundant TCP/IP |



## Qualifications

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

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