

# Frequency Converter for the Navy

The Navy's electronic needs are unique, and their standards are stringent. Highly sensitive equipment, coupled with the difficult conditions of the sea, called for a customized frequency converter that would assure the equipment on their ships of pure, continuous, and non-interfering energy.

The Navy's Issues	Gamatronic's Solution
High humidity, salinity, fungus, and dust	Completely sealed against humidity, salinity, fungus, and dust
Extreme temperatures	Insulated to withstand hot and cold temperatures
Shocks and vibrations	Installed on shock absorbers
No down time allowed	Two parallel redundant 1+1
Zero tolerance for electromagnetic and RFI emissions	Device controls RFI and EMC emissions
Must meet MIL-STD	Satisfied MIL-STD-461D/NAVY for surface ship
Small footprint	Frontal access for operation and maintenance, small size - H: 85 cm; W: 58 cm; D: 75 cm; Weight: 400 kg.

<b>CAPACITY</b>	30kVA/24kW
<b>INPUT</b>	3X440Vac (3W+G)
	Voltage range +10%-15%
	Frequency 60Hz (15Hz)
<b>OUTPUT</b>	3X115Vac
	60Hz/400Hz
<b>DIMENSIONS</b>	Height 85cm
	Width 59 cm
	Depth (including door with front panel) 75cm
	Weight (without batteries) 400Kg
<b>STANDARDS</b>	EMC: MIL-STD-461D/NAVY for surface ship
	Vibrations: MIL-STD-167
	Environmental conditions: MIL-STD-810-F
	General & Safety: EN50091-1, IEC-146, 157, 158, 439
	RFI/EMI: IEC-1800-3, NEPA-70, IEEE-18-1980, 519

