

# poweration

## MILITARY GRADE DC/AC NAVAL INVERTER 1500VA

19" Rack, Pure Sine-Wave  
"24 Vdc" Input  
"230 Vac / 60 Hz" Output



H: 130 mm  
W: 440 mm  
D: 450 mm

Especially suitable for "Naval" use, 19" Rack Type, with "IP-67" protection class. Made to comply with stringent Naval Military Specifications for Choke, Vibration, Temperature, Salt Mist, EMI/RFI and Electrical Transients. Unit is cooled by 24 Vdc water-proof fans against forced over-temperature operation.

**The manufacturer of this product ELSIS Co. Inc. established in 1971 is an "ISO-9001" certified company since 1999.**

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## Main Technical Specifications of “24 Vdc / 230 Vac - 60 Hz” Inverter:

Model	EL SIS / “ELS-1K0-INV-V2” ; “ELS-1K5-INV-V2” ; “ELS-2K0-INV-V1”
Manufacturer	EL SIS A.S.
Output Power	1000 / 1500 / 2000 VA; (under linear load)
Input Voltage Range	20 – 33 Vdc
Ripple Reflected to Input	Less than 200 mV rms
DC Input Compatibility	MIL-STD-1275B; (Bat. only, Gen. only, Bat.+ Gen.)
Noise Reflected to Input	Less than 500 mV <sub>(pp)</sub> under full load
No-Load Power Dissipation	Less than 80 W
Input Protection	Electronic shut-off when input voltage is out of operation range, and effective fuse protection against reverse battery connection.
Output Voltage Stability	230 Vac; +/-1% (can be tailored to customer request)
Output Frequency and Stability	60 Hz; +/-0,5% (can be tailored to customer request)
Load Power Factor	0,8
Output Wave Form	Sinusoidal
Output THD	Better than 3%
Crest Factor	Better than 3:1
Allowable Over-Load	Up to 2500 VA, for 2 seconds (the 1500 VA unit)
DC Content On Output	Less than 100 mV
Output Protection and Current Limiting	Full and continuous electronic protection against over-load and short-circuit (current limiting without distorting the output wave form); in addition Thermal-Magnetic circuit-breaker
Efficiency	Above 84% under 50% to 100% linear load
Electromagnetic Compatibility	“MIL-STD-461F; CE101; CE102; RE101; RE102”; CS101; CS106; CS114; CS115; CS116; RS101; RS103
Duration of Operation	Continuous, 24 hours a day, 7 days a week
Weight	23 kg (apprx. 50 lb)
Cooling	Natural & Forced air by waterproof 24Vdc axial fans
Mechanical Units	Metric (can be modified to customer request)
Dimensions	W: 440 mm; H: 130 mm (with fan module: 145 mm); D: 450 mm Main Body (Less handle cooling fan module, handle bar & connectors)
Front Panel Controls, Indicators and Rear Panel Connections	Power On/Off switch, Power On LED, Fault “LED”, on the front panel; “MS-38999” circular connectors, T/M circuit breakers, and passive fuse sealed cover
Operation Ambient Temperature	Between -32°C and +55°C (+63°C with fans)
Storage Ambient Temperature	Between -42°C and +80°C
Salt and Mist	MIL-STD-810F Method 509.4
Mechanical Choke	Vertical, half sine wave, 64g for 6 ms and 32g in other directions
Vibration	MIL-STD-810F 514.5-I; 514.5C-16 Methods and MIL-STD 1399 Sec 301A ship movements
Acoustical Noise	Less than 45 dB(A)
Operation Altitude	3000 m; above 3000 m according to degradation curve
Relative Humidity	MIL-STD 810F; 507.4

