

pOweration

MILITARY GRADE DC/AC INVERTER

19" Rack , Pure Sine-Wave

"24 Vdc" INPUT

"220 Vac / 50 Hz" OUTPUT



www.poweration.com

H: 88 mm
W: 430 mm
D: 475 mm

Especially suitable for "Mobile" and "Stationary" use with "IP-20" protection class. Made to comply with stringent Military Specifications for Choke, Vibration, Temperature, , EMI/RFI and Electrical Transients. Unit is cooled by internal fans and has a height of "2U".

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 “28 Vdc / 220 Vac - 50 Hz” Inverter:

Brand / Model	ELSIS; “ELS-1K0-INV”
Manufacturer	ELSIS A.S.
Output Power	1000 VA / 800 W (under linear load)
Input Voltage Range	20 – 33 Vdc
Ripple Reflected to Input	Less than 200 mV rms
DC Input Compatibility	MIL-STD-1275B
Noise Reflected to Input	Less than 500 mV _(pp) 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	220 Vac; +/-1% (can be tailored to customer request)
Output Frequency and Stability	50 Hz; +/-0,5%
Output Power Factor	0,8
Output Wave Form	Sinusoidal
Output THD	Better than 3%
Crest Factor	Higher than 3:1
Allowable Over-Load	Up to 1500 VA, for 2 seconds
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 87% under 50% to 100% linear load
Electromagnetic Compatibility	MIL-STD-461E, CE101, CE102, RE101, RE102
Static “By-Pass”	Normally load is on external source when voltage is within allowed limits; otherwise automatically transferred to Inverter Output
Duration of Operation	Continuous, 24 hours a day, 7 days a week
Weight	11 kg (apprx. 20 lb)
Cooling	Forced air cooling by internal axial fans
Mechanical Units	Metric (can be modified to customer request)
Dimensions	W: 430 mm; H: 88 mm; D: 475 mm (main body)
Front Panel Controls, Indicators and Rear Panel Connections	Three position rotary switch for operation modes, “LED” indicators on the front; “MS-3102” circular connectors, T/M circuit breakers, and passive fuse on the rear panel
Operation Ambient Temperature	Between -32° C and +55° C
Storage Ambient Temperature	Between -40° C and +80° C
Salt and Mist	MIL-STD-810E Method 509.3, 48 hours mist and 48 hours dry time
Mechanical Choke	MIL-STD-810E
Vibration	MIL-STD-810E, Category 8, Military Land Vehicle
Acoustical Noise	Less than 50 dB(A)
Operation Altitude	2000 m; above 2000 m according to degradation curve
Relative Humidity	Up to 90% (without condensation)

