

pOweration

DC/AC INVERTER Ultra Compact, Pure Sine-Wave

"50-100VA" 18-36Vdc INPUT

"26-120Vac / 47*-500Hz" OUTPUT



H: 34 mm
W: 87,5 mm
D: 87,5 mm

www.poweration.com

Especially suitable to supply gyros of military and avionics. Made to comply with stringent Military Specifications for Choke, Vibration, Temperature, EMI/RFI and Electrical Transients.

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-K07-INV-V1"
Manufacturer	ELSIS A.S.
Output Power	50VA - 100VA
Input Voltage Range	18 – 36 Vdc
Ripple Reflected to Input	Less than 300 mV rms
DC Input Compatibility	MIL-STD-1275B
Noise Reflected to Input	Less than 100 mV _(pp) under full load
No-Load Power Dissipation	Less than 10 W
Input Protection	Electronic shut-off when Input voltage is out of operation range
Input Reverse Polarity Protection	Up to 50Vdc continuous
Line Regulation	+/-2%
Load Regulation	+/-2%
Output Frequency Stability	+/-0.1% Hz
Output Power Factor	Full capacitive, resistive to full inductive
Output Wave Form	Sinusoidal
Output THD	Better than 3%
Crest Factor	Better than 3:1
Allowable Over-Load	%20 Temperature Limited
DC Content On Output	"0" V
Output Protection and Current Limiting	Continuous electronic protection for unlimited time against over-load and short-circuit , Auto recovery
Efficiency	70 to 78% from 40% load
EMI/RFI	Designed to meet requirements of MIL-STD-461E
Environmental Conditions	Meets or exceeds the requirements of MIL-STD-810E
Duration of Operation	Continuous, 24 hours a day, 7 days a week
Weight	524g (apprx. 1.15 lb)
Cooling	Conduction cooling, assembled on a base plate not to exceed 90°C
Mechanical Units	Metric (can be modified to customer request)
Dimensions	W: 87.5 mm; H: 34 mm; D: 87.5
Package Type	Not Encapsulated
Front Panel Indicator	Output "OK" indicator Green LED
Front Panel Connector with Special Features	DB15 Remote supervising signal isolated output
Operation Ambient Temperature	Between -40° C and +90° C (Base-plate)
Storage Ambient Temperature	Between -55° C and +125° C
Salt and Mist	MIL-STD-810F Method 509.4
Mechanical Choke	MIL-STD-810F, Method 516.5, Procedure 1- Functional Choke 40g, 11 ms, saw tooth on all axes, opposite directions, Military Land Vehicle
Vibration	MIL-STD-810F, Category 24, Procedure-1 (Annex A 2.4.1) minimum integrity on all axes, 1 hour each
Relative Humidity	Up to 90% (without condensation)
Isolation	200V Between output and input (26 Vac rms) 500V Between output and input (115 Vac rms) 100V Between output and case

