

pOweration

19" Rack NAVAL MILITARY GRADE CHARGER / POWER SUPPLY

"3x115 Vac – 60 Hz" INPUT &
"28 Vdc / 60 A" OUTPUT



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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 natural convection cooled.

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 - 60 A" Charger:

Brand / Model	EL SIS; "ELS-1K6-CHR-V1"
Manufacturer	EL SIS A.S.
Input Voltage Range	3x115 Vac (3-wire delta); 90-140 Vac Phase-Phase
Input Power Factor	0,99 typical; 0,95 minimum from half load to full load
Input Current THD	<3%; Mil-Std 1399 Sec 300A 5.2.8 above 50% load
EMI Reflection to Input	MIL-STD-461F, CE101, CE102,
Input Protection	Thermal/Magnetic circuit breaker and electronic turn off at input voltages beyond allowed limits
Output Voltage	28 Vdc; with battery temperature compensation and stability of "+/-1%"
Nominal Output Power	1680 W
Output Voltage Ripple	Up to 100 kHz band, less than 300 mV
Output Current Limit	Fully electronic at 10% above nominal current
Output Protection	<ul style="list-style-type: none"> * Fully electronic against over-load and continuous short-circuit conditions. * Fuse protection against reverse connection of battery * Prevention of battery discharge when charger is off
ESDS	EN61000-4-2 Level 3 (6000 V)
Efficiency	Better than 83% (from 50% to 100% load, in all input voltage range (90-140Vac))
Electromagnetic Compatibility	MIL-STD-461F, RS101; RS103; CS101; CS106; CS114; CS115; CS116; CE101; CE102; RE101; RE102
Duration of Operation	Continuous, 24 hours a day, 7 days a week
Weight	32 kg (apprx. 68 lb)
Package Type	19" body, to be mounted on appropriate tray
Cooling	Forced air cooled by internal axial fan, blowing air from front to back
Mechanical Units	Metric (can be modified to customer request)
Dimensions	W: 209 mm; H: 173 mm; D: 335 mm
Front Panel Controls, Indicators and Connections	<ul style="list-style-type: none"> * "IP & OP" switches, "Line", "Charge", "Temp" and "Fault" LED's on the front panel * "MS-3102" circular connectors for "Input", "Fan" "Control", "Output" and "Temp. Comp."
Operation Ambient Temperature	From -32o C to +50o C
Storage Temperature	From -40o C to +70o C
Salt and Mist	MIL-STD-810F Method 509.4, 48 hours mist and 48 hours dry time
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	2000 m; above 2000 m according to degradation curve
Relative Humidity	Up to 90% (without condensation)
Parallel Operation	Parallel and load sharing operation of up to 4 units

