

pOweration

MILITARY GRADE RECTIFIER / CHARGER

"220 Vac - 50 Hz" INPUT &
"28 Vdc / 20 A" OUTPUT



H: 165 mm
W: 285 mm
D: 415 mm

"Universal (85-265Vac)" INPUT & "28 Vdc / 20 A" OUTPUT Especially suitable for "Mobile", "Field" and "Stationary" use. Made to comply with stringent Military Specifications for Choke, Vibration, Temperature, Submersion (IP-67), 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 - 20 A" Charger / Rectifiers:

Brand / Model	EL SIS; "ELS-0K7-CHR-V1"
Manufacturer	EL SIS A.S.
Input Voltage Range	85 – 265 Vac (Can be tailored to customer request)
Input Power Factor	>0,98 from half load to full load
Input Current THD	Less than 5%
EMI Reflection to Input	MIL-STD-461E, CE101, CE102
Input Circuit Breaker	Sealed, T/M, DPST Toggle
Output Voltage	28 Vdc; one charge output with battery temperature compensation and two supply outputs with "+/-1%" stability
Max. Continuous Output Power	560 W
Output Ripple	Up to 10 Mhz band, less than 200 mV
Output Current Limit	Fully electronic with 20% fold-back when 100% is exceeded
Output Protection	<ul style="list-style-type: none"> * Sealed, Thermal-Hydraulic, DPST toggle switch * Electronic short-circuit protection for unlimited time * Protection against reverse connection of battery (fuse) * Prevention of battery discharge when charger is off
Output Transient Protection	MIL-STD-1275A
Efficiency	Better than 83% (from 50% to 100% load, under nominal conditions)
Electromagnetic Compatibility	MIL-STD-461E, CE101, CE102, RE101, RE102
Duration of Operation	Continuous, 24 hours a day, 7 days a week
Weight	11 kg (apprx. 25 lb)
Package Type	Bottom screw mount, using metric "M6" screws
Cooling	Natural convection
Mechanical Units	Metric (can be modified to customer request)
Dimensions	W: 342 mm; H: 175 mm; D: 345 mm
Operation Modes	<ul style="list-style-type: none"> * "Charge" mode * "Supply" mode Selected on the front panel by screw-driver operated, sealed "Rotary Switch"
Front Panel Controls, Indicators and Connections	Input and Output Sealed Circuit Breakers (T/H), "MS-38999" type circular connectors for AC Input, DC Outputs, LED's for Charging, Full and Fault Indications
Operation Temperature	From -32o C to +63o C (with 10% degradation)
Storage Temperature	From -40o C to +85o C
Salt and Mist	MIL-STD-810E Method 509.3, 48 hours mist and 48 hours dry time
Mechanical Choke	MIL-STD-810F
Vibration	MIL-STD-810F, Category-24 Procedure I Annex A 2.4.1
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

