

# pOweration

## MILITARY GRADE CHARGER

"220 Vac – 50 Hz" INPUT &

"28 Vdc / 60 A" OUTPUT



H: 155 mm  
W: 180 mm  
D: 445 mm

Especially suitable for "Mobile" and "Stationary" use, "IP-20" Protection Class chargers. 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 - 60 A" Charger:

<b>Brand / Model</b>	EL SIS; "MIL-1K7-CHR"
<b>Manufacturer</b>	EL SIS A.S.
<b>Input Voltage Range</b>	176 – 264 Vac
<b>Input Power Factor</b>	0,99
<b>Input Current THD</b>	Less than 5%
<b>EMI Reflection to Input</b>	MIL-STD-461E, CE101, CE102, RE101, RE102
<b>Input Protection</b>	Thermal/Magnetic circuit breaker and electronic turn off at input voltages beyond allowed limits
<b>Output Voltage</b>	28 Vdc; with battery temperature compensation and stability of "+/-1%"
<b>Nominal Output Power</b>	1700 W
<b>Output Voltage Ripple</b>	Up to 10 Mhz band, less than 200 mV
<b>Output Current Limit</b>	Fully electronic at 10% above nominal current
<b>Output Protection</b>	<ul style="list-style-type: none"> <li>* Fully electronic against over-load and continuous short-circuit conditions.</li> <li>* Fuse protection against reverse connection of battery</li> <li>* Prevention of battery discharge when charger is off</li> </ul>
<b>Output Transient Protection</b>	MIL-STD-1275A
<b>Efficiency</b>	Better than 85% (from 50% to 100% load, under nominal conditions)
<b>Electromagnetic Compatibility</b>	MIL-STD-461E, CE101, CE102, RE101, RE102
<b>Duration of Operation</b>	Continuous, 24 hours a day, 7 days a week
<b>Weight</b>	13 kg (apprx. 22 lb)
<b>Package Type</b>	Mounted by 6x "M6" screws on the bottom and fixed by 2x "M5" screws at the rear angle bracket
<b>Cooling</b>	Forced air cooled by internal axial fan, blowing air from front to back
<b>Mechanical Units</b>	Metric (can be modified to customer request)
<b>Dimensions</b>	W: 180 mm; H: 155 mm; D: 445 mm
<b>Front Panel Controls, Indicators and Rear Panel Connections</b>	<ul style="list-style-type: none"> <li>* "Turn-On" switch, "Line and Fault" LED's on the front panel</li> <li>* "MS-3102" circular connectors for "Input", "Control", "Output" and "Temp. Comp." Connections</li> </ul>
<b>Operation Ambient Temperature</b>	From -32° C to +55° C
<b>Storage Temperature</b>	From -40° C to +80° C
<b>Salt and Mist</b>	MIL-STD-810E Method 509.3, 48 hours mist and 48 hours dry time
<b>Mechanical Choke</b>	MIL-STD-810E
<b>Vibration</b>	MIL-STD-810E, Category 8, Military Land Vehicle
<b>Acoustical Noise</b>	Less than 50 dB(A)
<b>Operation Altitude</b>	2000 m; above 2000 m according to degradation curve
<b>Relative Humidity</b>	Up to 90% (without condensation)
<b>Parallel Operation</b>	Parallel and load sharing operation of up to 4 units

