

# ELI-52526-B

NATO Li-Ion Rechargeable Battery

## Description and Features

- NATO 6T Lithium-Ion battery for armored and military vehicles and heavy duty applications
- 4 times more energy than in AGM 6T Lead Acid battery
- 1,000 charging cycles and 5 year operational life
- Drop-in replacement of Lead-Acid batteries
- Smart battery with self-balancing and self-charging capability
- Serial and parallel interconnectivity with additional batteries supporting group operation
- Unique high current charge regulator that supports high power alternator feed, surges and unequal SOC in battery cluster

## Charge Method (CCCV)

- Embedded charging control
- Charge source: 30VDC power supply or 28V alternator
- Charging Voltage: 28VDC to 30VDC
- Recommended Charging current: 82A
- Fast Charging: 130A
- High current charge regulator that supports high power alternator feed, surges and differential battery SOC

## BMS

- Protection: Under/over voltage; over-current; Short circuit; Reverse polarity; High/low temperature; Balance
- Communication: standard and configurable CANBus 2.0B; LED Fuel Gauge

## Quality System

- ISO-9001:2008; AS-9100

## Applicable Standards

- UN-38.3
- MIL-STD-1275E
- MIL-STD-810G
- MIL-STD-461G
- UL- 1642 ( for cells )

## MSDS and Disposal

- Check with manufacturer



Electrical	4.2kWh
Capacity (typical)	166 Ah
Energy	4,200 Wh
Voltage (min, nom, max)	18.6V, 25.3V, 29.4 V
Max charge current	130A @ >130A will operate using charge current regulation
Max. discharge current	1,100A @ 30sec pulse 260A @ 25°C 170A @ 55°C 70A @ 71°C
Cold Crank Amps	1,100A @ -19°C
Life Cycle	1,000 cycles to 80% capacity @ 80% DoD

Mechanical	
Dimensions (L;W;H)	267mm;285mm;230mm
Weight	25.0 kg      23.0 kg
Energy Density	168 Wh/kg; 240 Wh/L
Battery Housing	Reinforced polymer
Ingress Protection	IP67
Color	Coyote Brown

Environmental	
Charge temp.	-40°C to 55°C (internal heater)
Discharge temp.	-40°C to 71°C (internal heater)
Storage temp.	-40°C to 71°C (accelerated aging at temperatures > 30°C)
Transportation	Class 9

