

ELI-52526-B

NATO 6T Li-Ion NCA Rechargeable Battery

Description and Features

- NATO 6T Lithium-Ion battery for military/armored vehicle applications
- 4 times more energy than in Lead Acid 6T batteries
- 1,200 charging cycles and 5 year operational life
- Drop-in replacement of Lead-Acid batteries
- Smart BMS with self-balancing and high-current charge regulation that prevents battery disconnection
- CUNBus communication (J1939)
- Serial and parallel interconnectivity with additional batteries supporting group operation



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
- Max charging: 250A (to support alternator current surges)

BMS

- Protection: Under/over voltage; over-current; Short circuit; Reverse polarity; High/low temperature; Balance
- Communication: CANBus according to MIL-PRF-32565B; 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 | 4.2 kWh |
|-------------------------|---|
| Capacity (typical) | 166 Ah |
| Energy | 4,200 Wh |
| Voltage (min, nom, max) | 18.6V, 25.3V, 29.4 V |
| Max charge current | 130A recommended 250A to support alternator current surges |
| Max. discharge current | 1,100A @ 30sec pulse; 260A @ 25°C; 170A @ 55°C; 70A @ 71°C |
| Cold Crank Amps | 800A @ -19°C |
| Life Cycle | 1,200 cycles to 70% capacity @ 80% DoD |

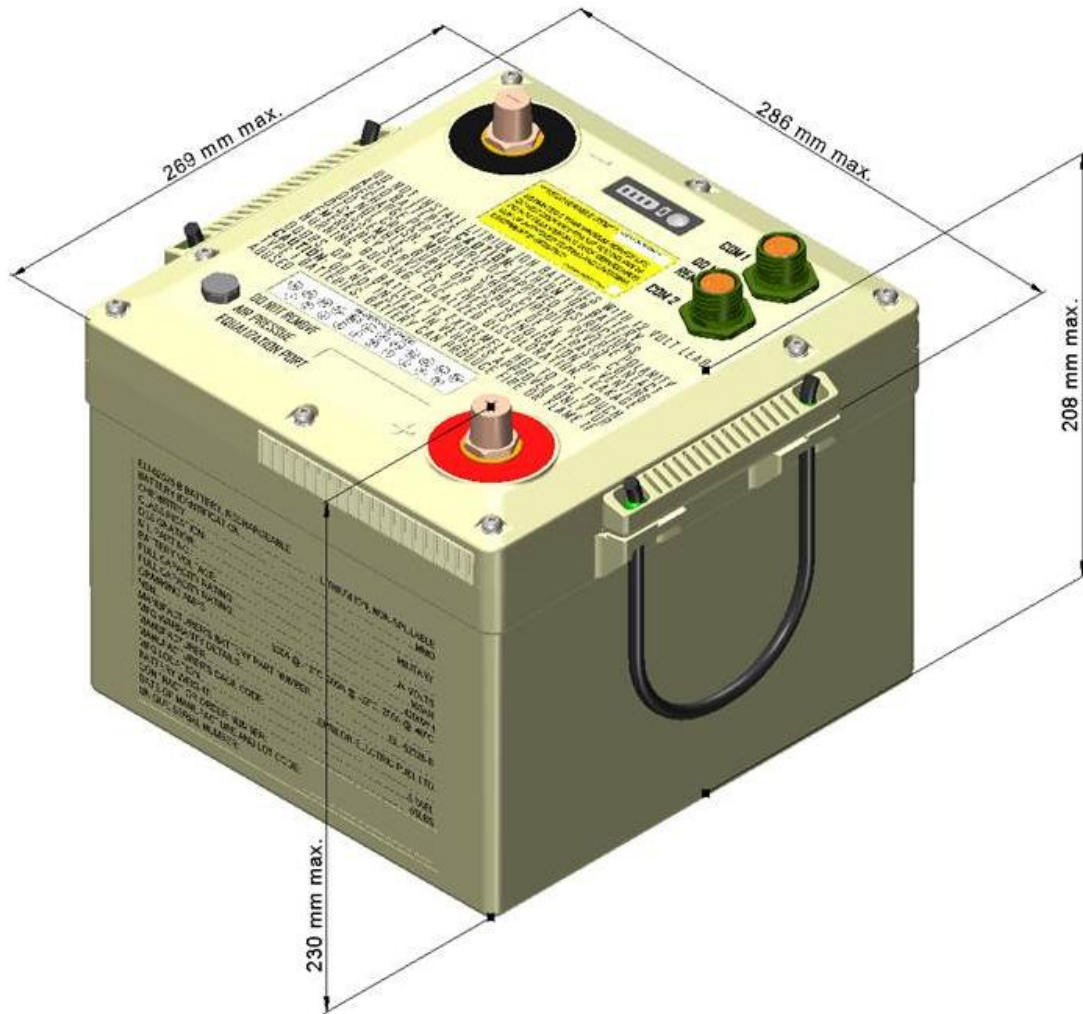
| Mechanical | |
|--------------------|-----------------------------|
| Dimensions (L;W;H) | 267mm;285mm;230mm (NATO 6T) |
| Weight | 25.0 kg |
| Energy Density | 168 Wh/kg; 240 Wh/L |
| Battery Housing | Reinforced polymer |
| Ingress Protection | IP67 |
| Color | NATO Tan |

| Environmental | |
|-----------------|---|
| Charge temp. | -46°C to 55°C (with internal heater) |
| Discharge temp. | -46°C to 71°C |
| Storage temp. | -54°C to 88°C (accelerated aging @ temperature >30°C) |
| Transportation | Class 9 |



COMBATBT

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