

ELI-52526-C

NATO 6T Li-Ion NCA Rechargeable Battery

Description and Features

- NATO 6T Lithium-Ion battery for military vehicle applications
- 4 times more energy than in Lead-Acid 6T batteries
- 1,200 charging cycles and 5-year operational life
- Smart BMS with self-balancing and high-current charging protection
- CANBus communication (MIL-PRF-32565C)
- Serial and parallel connectivity with additional batteries supporting high voltage configuration

Charge Method (CCCV)

- Charging voltage/current: 28VDC (alternator), 30VDC (power supply)
- Charging current: 80A-130A (standard) / 250A (peak)
- Embedded charging control and balancing

BMS

- Protection: under/over voltage; over-current; short circuit; reverse polarity; high/low temperature; balance
- Communication: CANBus (MIL-PRF-32565C); LED fuel gauge

Quality System

- ISO-9001:2015; AS-9100D

Applicable Standards

- UN-38.3
- MIL-STD-1275E
- MIL-STD-810G
- MIL-STD-461G
- UL-1642 (for cells)
- MIL-PRF-32565C (BMS and Communication)

MSDS and Disposal

- Check with manufacturer



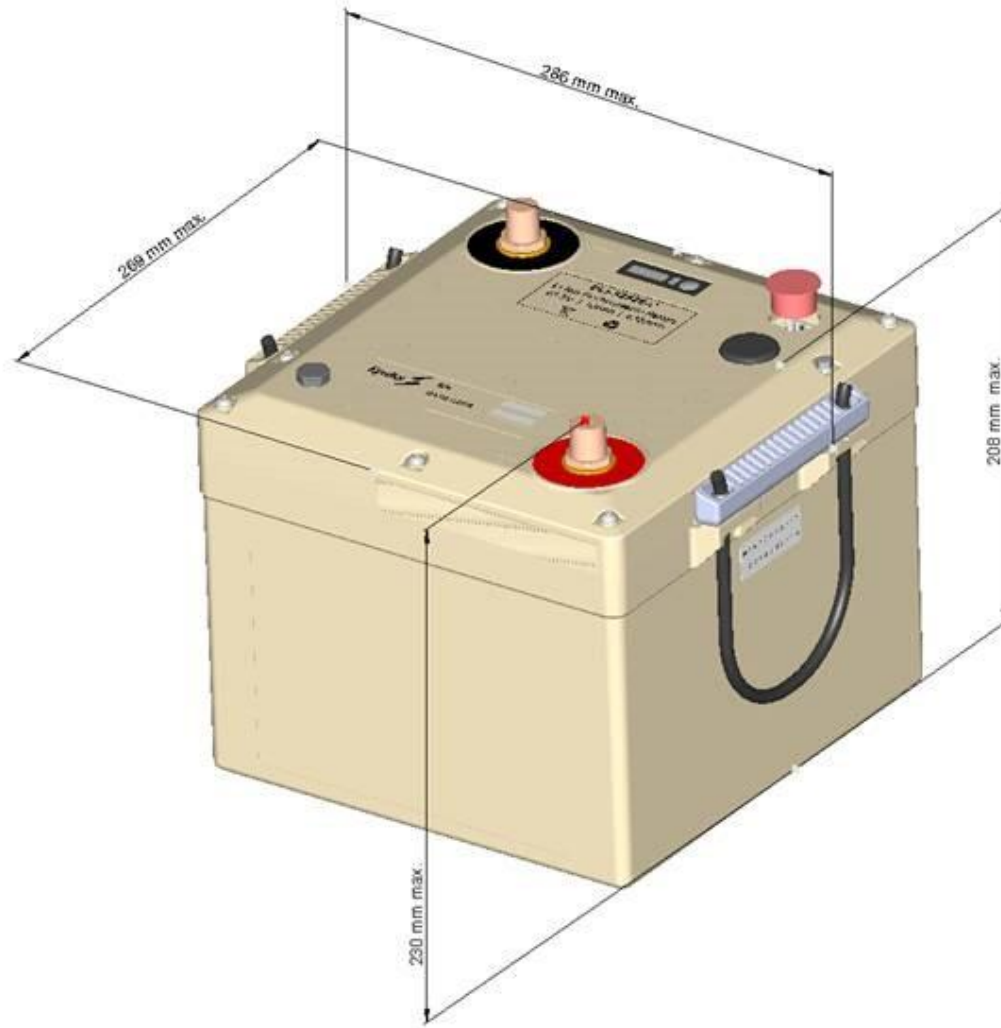
Electrical	4.2 kWh
Capacity (typical)	166 Ah
Energy	4,200 Wh
Voltage (min, nom, max)	18.6V, 25.3V, 29.4 V
Max charge current	130A recommended 250A to support alternator current surges
Max. discharge current	1,100A @ 30sec pulse; 260A @ 25°C; 170A @ 55°C; 70A @ 71°C
Cold Crank Amps	800A @ -19°C
Life Cycle	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

DEFENCE VEHICLE BATTERY



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