

ELI-52526-DM

NATO 6T Li-Ion NCA Rechargeable Battery



Description and Features

- NATO 6T Lithium-Ion battery for military/armored vehicle applications in a blast protected case
- 4 times the energy of Lead Acid 6T batteries
- 1,200 charging cycles and 5-7 year operational life
- Smart BMS with self-balancing and high-current charge regulation that prevents battery disconnection
- Standard CAN Bus communication (J1939)
- Parallel connectivity with additional batteries supporting group operation
- Serial connection of batteries (Optional, consult manufacturer)

Charge Method (CCCV)

- Embedded charging control
- Charge source: 30VDC power supply or 28V alternator
- Charging Voltage: 28VDC to 29.4VDC
- Recommended Charging current: 72A
- Fast Charging: 140A
- Max charging: 300A (to support alternator current surges)

BMS

- Protection: Under/over voltage; over-current; Short circuit; Reverse polarity; High/low temperature; Balance
- Communication: CAN Bus according to MIL-PRF-32565C; LED Fuel Gauge

Quality System

- ISO-9001:2008; AS-9100

Applicable Standards

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

Electrical	3.63 kWh
Capacity (typical)	144 Ah
Energy	3,630 Wh
Voltage (min, nom, max)	18.6V, 25.2V, 29.4 V
Max charge current	140A continuous 300A @ 23°C to support alternator current surges
Max. discharge current	1,100A @ 30sec pulse 300A @ 23°C
Cold Crank Amps	1100A @ -18°C
Life Cycle	1,200 cycles to 70% capacity @ 80% DoD

Mechanical	
Dimensions (L;W;H)	268mm; 284mm; 225mm (NATO 6T)
Weight	27.0 kg
Energy Density	134Wh/kg; 212Wh/L
Battery Housing	Stainless Steel
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

Epsilor reserves the right to change datasheet without notice



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