

ELP-02426-M

NATO 6T LFP Rechargeable Battery in a Metal-Case

Description and Features

- NATO 6T LFP battery for defence vehicle applications
- Heavy duty metal case that meets MIL-PRF-32565B safety requirements
- 2.5 times more energy than in Lead Acid batteries
- 3,500 charge cycles and 10-year operational life
- Smart BMS with self-charging and self-balancing
- Serial and parallel connectivity with additional batteries supporting high voltage and high-power applications

Charge Method (CCCV)

- Embedded charge controller
- Charging source: 28.8VDC power supply or 28V alternator
- Charging voltage: 28.8VDC
- Recommended charging current: 55A
- Max charging current: 130A cont.; 200A for 30s
- Charging in cold weather conditions with automatic internal heater

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-9100D

Applicable Standards

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



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Electrical	2.53 kWh
Capacity (typical)	99 Ah
Energy	2,530 Wh
Voltage (min, nom, max)	19.0V, 25.6V, 28.8V
Max charge current	130A continuous 200A for 30s
Discharge current	Continuous: 220A Peak: 1,100 (30s)
Cold Crank Amps	600A @ -19°C
Life Cycle	3,500 cycles to 70% capacity @ 100% DOD

Mechanical	
Dimensions (L;W;H)	268mm;286mm;230mm (NATO 6T)
Weight	25 kg
Energy Density	101 Wh/kg; 150 Wh/L
Battery Housing	Aluminum with pressure relief
Ingress Protection	IP68
Color	NATO Tan / Coyote Brown

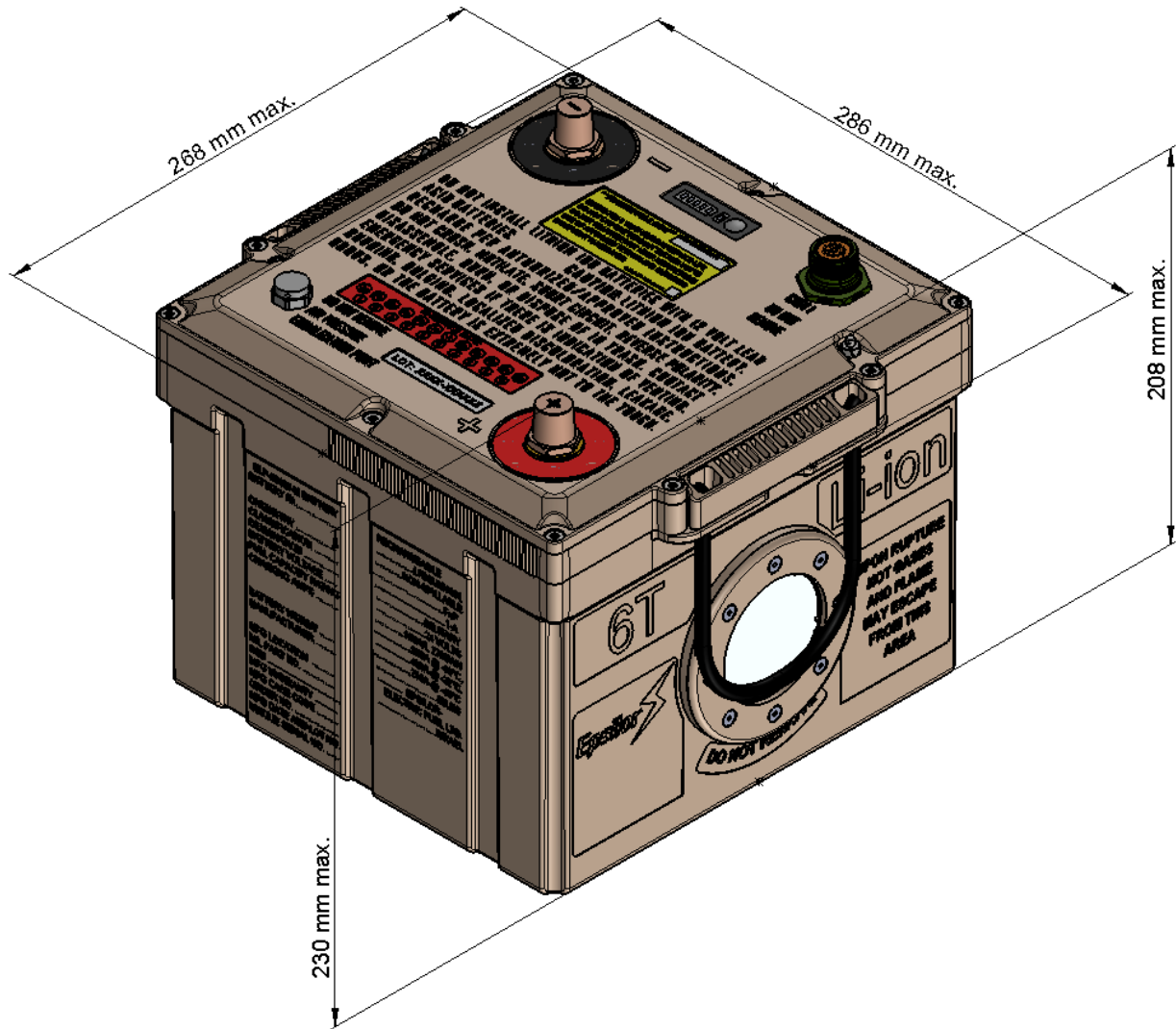
Environmental	
Charge temp.	-46°C to 55°C (with internal heater)
Discharge temp.	-40°C to 71°C
Storage temp.	-54°C to 88°C (accelerated aging @ temperature >30°C)
Transportation	Class 9

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COMBATBT

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