

ELP-02426-M

NATO 6T LFP Rechargeable Battery in a Metal-Case

Description and Features

- NATO 6T LFP battery for military/armored vehicle applications
- Heavy duty metal case that meets US Army (MIL-PRF-32565B)
- 3 times more energy than in similar Lead Acid batteries
- 3,500 charge cycles and 10-year operational life
- Drop-in replacement for Lead-Acid batteries
- 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: 30VDC 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

MSDS and Disposal

- Check with manufacturer



| Electrical | 2.76 kWh |
|------------------------------|---|
| Capacity (typical) | 108 Ah |
| Energy | 2,765 Wh |
| Voltage (min, nom, max) | 19.0V, 25.6V, 28.8V |
| Max charge current | 130A continuous; 200A for 30s |
| Continuous discharge current | 220A @ 25°C |
| Cold Crank Amps | 700A @ -19°C |
| Life Cycle | 3,500 cycles to 70% capacity @ 100% DOD |

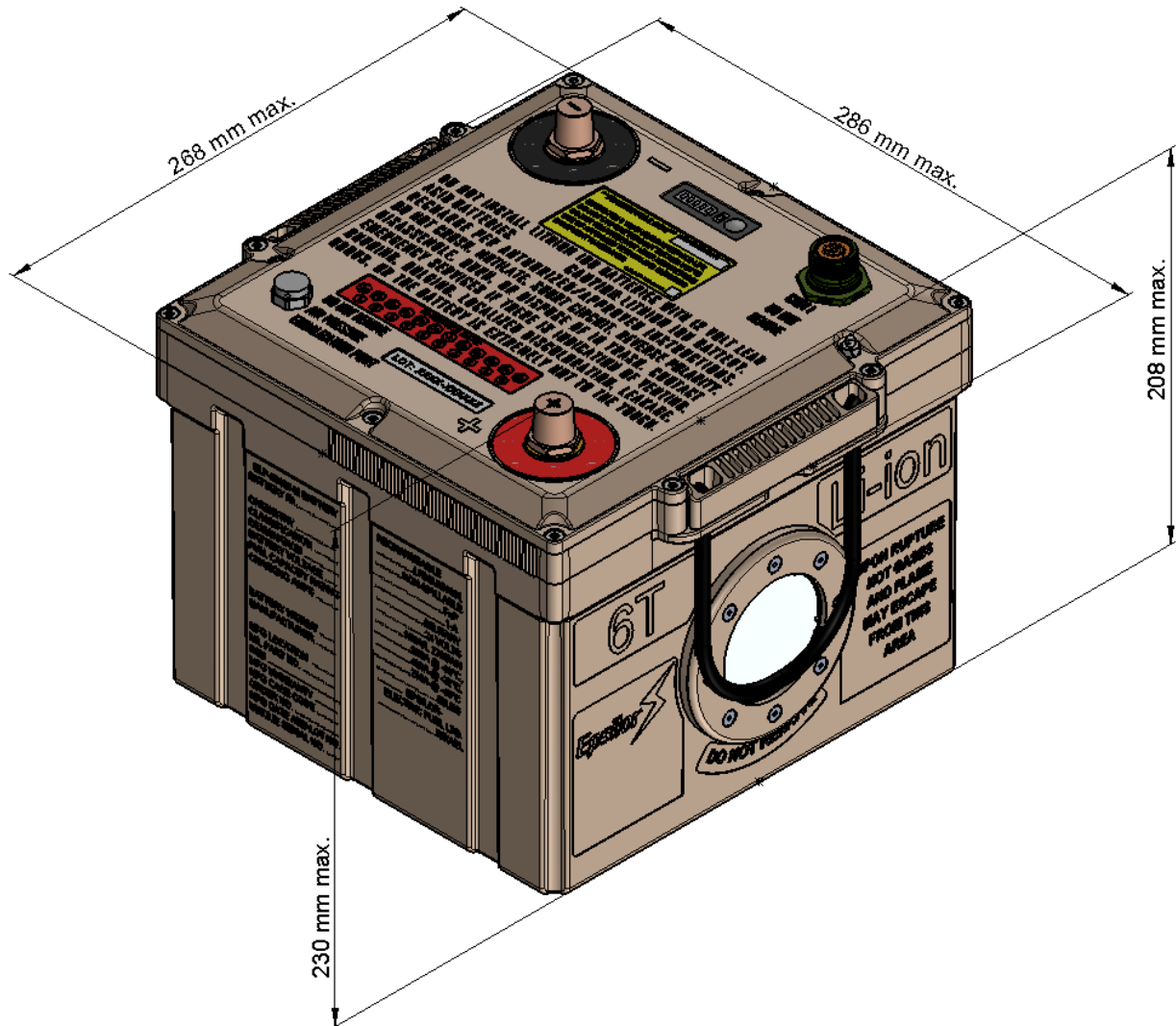
| Mechanical | |
|--------------------|-------------------------------|
| Dimensions (L;W;H) | 267mm;285mm;230mm (NATO 6T) |
| Weight | 25 kg |
| Energy Density | 111 Wh/kg; 158 Wh/L |
| Battery Housing | Aluminum with pressure relief |
| Ingress Protection | IP68 |
| Color | NATO Tan / Coyote Brown |

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



COMBAT^{BT}

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