ELP-02426
NATO LiFePO4 Rechargeable Battery

Description and Features
- NATO 6T LiFePO4 battery for armored and military vehicles and heavy duty applications
- 2.7 times more energy than in advanced Lead Acid batteries
- 3500 charging cycles and 10 year operational life
- Drop-in replacement of Lead-Acid batteries
- Smart battery with self-balancing and self-charging capability
- Serial and parallel interconnectivity with additional batteries supporting group operation
- Unique high current charge regulator that supports high power alternator feed and surges.

Charge Method (CCCV)
- Embedded charge controller
- Charge source: 30VDC power supply or 28V alternator
- Charging Voltage: 28.8VDC
- Recommended Charging current: 55A
- Fast Charging: 110A
- High current charge regulator that supports high power alternator feed, surges and differential battery SOC

BMS
- Protection: Under/over voltage; over-current; Short circuit; Reverse polarity; High/low temperature; Balance
- Communication: standard and configurable CANBus 2.0B; LED Fuel Gauge

Quality System
- ISO-9001:2008; AS-9100

Applicable Standards
- UN-38.3
- UL- 1642 / IEC 61233 (for cells)

MSDS and Disposal
- Check with manufacturer

Electrical

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (typical)</td>
<td>108 Ah</td>
</tr>
<tr>
<td>Energy</td>
<td>2740 Wh</td>
</tr>
<tr>
<td>Voltage (min, nom, max)</td>
<td>20.0V, 25.6V, 28.8V</td>
</tr>
<tr>
<td>Max charge current</td>
<td>110A @ 120A current regulation is activated</td>
</tr>
<tr>
<td>Max. discharge current</td>
<td>1,200A @ 500msec pulse, 1.67% duty cycle</td>
</tr>
<tr>
<td>Cold Crank Amps</td>
<td>1,100A @ -19°C</td>
</tr>
<tr>
<td>Life Cycle</td>
<td>3,500 cycles to 70% of initial capacity</td>
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<tr>
<td>Internal resistance</td>
<td>&lt; 5.5mΩ @ 25°C</td>
</tr>
</tbody>
</table>

Mechanical

- Dimensions (L;W;H): 267mm; 285mm; 230mm
- Weight: 26 kg
- Energy Density: 105 Wh/kg; 157 Wh/L
- Battery Housing: Reinforced polymer
- Ingress Protection: IP67
- Color: Coyote Brown

Environmental

- Charge temp: -40°C to 55°C (with heater)
- Discharge temp: -40°C to 71°C (with heater)
- Storage temp: -40°C to 71°C
- Transportation: Class 9

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