



ELECTRONICS

The High Energy Density Battery System (HEDBS) is a 25.6 volt, 50 amp-hour battery for the GREENS system. Comprised of multiple Lithium-Iron-Phosphate battery packs, the HEDBS includes intelligent control for charge management and battery protection. Battery state of charge is displayed on the top of the case. The HEDBS has an energy density of 72W-hr/Kg and extended life cycle, allowing eight times the typical charging cycles of lead acid battery. J1939/2 Controller Area Network communications allows the GREENS Controller to efficiently manage the battery charging.

PRODUCT SPECIFICATION

HIGH ENERGY DENSITY BATTERY



GENERAL SPECIFICATIONS

Part Number:

0754A12
0754A06

Electrical:

- 25Vdc, 51A-hr (1300W-hr)
- Load Current: 40A(max.)
- Meets MIL-STD-461E, CE102, RE102, and RS103

Human Machine Interface:

- 5-Segment LED State of Charge indication
- J1939/2 CAN Communications

Protection:

- Reverse voltage
- Over-charge
- Over-discharge
- Over-voltage: 32V
- Over-current: 50A
- Over-temperature: 60°C
- Short circuit

Reliability:

- Mean Time Between Critical Failure (MTBCF)
>20,000 Hours

Environmental:

- Corrosion Resistant as per MIL-STD-810F, Method 509.4
- Sand and Dust resistant as per MIL-STD-810F, Method 510.4
- Shock resistant as per MIL-STD-810F, Method 516.5, procedure IV
- Immersion (non-operating) resistant as per MIL-STD-810F, Method 512.4
- Rain resistant as per MIL-STD-810F, Method 506.4
- Operational temperate range
-4°F to 131°F (-20°C to 55°C)

Mechanical:

- Dimensions: 16.5" x 14" x 7"
- Weight: 40 pounds
- Materials: Polypropylene Case

Usability/Maintainability:

- UN/DOT Air Transport Approved
Hazard Class 9, UN# 3091, Packaging Group II, Label Code 9, Placard Class 9