

### HIGH ENERGY DENSITY BATTERY

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.



## GENERAL SPECIFICATIONS

### Part Number:

0754A12

### 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

### National Stock Number (NSN):

- 6140-01-627-5512

### GSA Contract Schedule 56:

- GS-07F-172DA