

# URB0023-01 Stackable 24V Power Storage

## Technical Datasheet

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| Technical Specifications   |                                                                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part No                    | URB0023-01                                                                                                                                                                                                                           |
| NSN                        | 6140-01-688-6767 equivalent                                                                                                                                                                                                          |
| Voltage Range              | 20V to 28.8V                                                                                                                                                                                                                         |
| Nominal Voltage            | 25.6V                                                                                                                                                                                                                                |
| Capacity <sup>1</sup>      |                                                                                                                                                                                                                                      |
| Typical Capacity           | 64.8Ah                                                                                                                                                                                                                               |
| Minimum                    | 63.0Ah                                                                                                                                                                                                                               |
| Max. Continuous Discharge  | 25.0A                                                                                                                                                                                                                                |
| Max. Pulse Discharge       | 50.0A (up to 15 Minutes)                                                                                                                                                                                                             |
| Energy Rating              | 1.65kWh                                                                                                                                                                                                                              |
| Energy Density             |                                                                                                                                                                                                                                      |
| Gravimetric                | 104Wh/Kg                                                                                                                                                                                                                             |
| Volumetric                 | 101Wh/L                                                                                                                                                                                                                              |
| Chemistry                  | Lithium Iron Phosphate (LiFePo4)                                                                                                                                                                                                     |
| Weight                     | 35.0lbs 15.9kg                                                                                                                                                                                                                       |
| Color                      | Desert Tan #33446 per FED-STD-595                                                                                                                                                                                                    |
| Cycle Life <sup>2</sup>    | >2000 cycles to 80% of initial capacity                                                                                                                                                                                              |
| Operating Temperature      | -32°C to +65°C discharging;<br>0°C to +50°C charging                                                                                                                                                                                 |
| Storage Temperature        | -20°C to +50°C                                                                                                                                                                                                                       |
| Self-Discharge @ 23°C      | <5% per month, recharge every 6 months                                                                                                                                                                                               |
| Exterior/Housing           | Hard plastic, overmolded shock absorbing corners                                                                                                                                                                                     |
| Terminals/Connector        | 5/16-24 Female threaded terminals                                                                                                                                                                                                    |
| Certifications             | UN 38.3                                                                                                                                                                                                                              |
| Protection                 | Over Voltage: 3.75V<br>Under Voltage: 2.50V<br>Over Current: 61A<100ms, 200A<400us<br>Transient Currents: 500A for < 2ms; TBD > TBDus<br>Short Circuit<br>Overcharge Protection: Up to 40V<br>Deep Discharge Protection              |
| Charging                   | Connect battery to a DC power source using correct polarity and apply a maximum voltage of 28.8V. Limit the current to the recommended rate of 10A and hold to 28.8V until the current declines to 2.8A. Maximum charge rate is 25A. |
| Safety                     | Material Safety Datasheet - MSDS00152                                                                                                                                                                                                |
| Transportation             | UN3480: Lithium Ion Battery > 100Whr<br>Packing Instruction 965 Section IA<br>Forbidden from transportation as cargo on Passenger aircraft<br>Class 9 Dangerous Goods<br>UN Testing Summary - UNTS-0279                              |
| Harmonized Tariff Schedule | 8507.60.0000                                                                                                                                                                                                                         |
| Notes                      | 1.Using a C/5 discharge rate at 25°C.<br>2.Number of consecutive C/5 rate discharges and recommended charges of 25±5°C until the battery reaches 80% of initial capacity.                                                            |

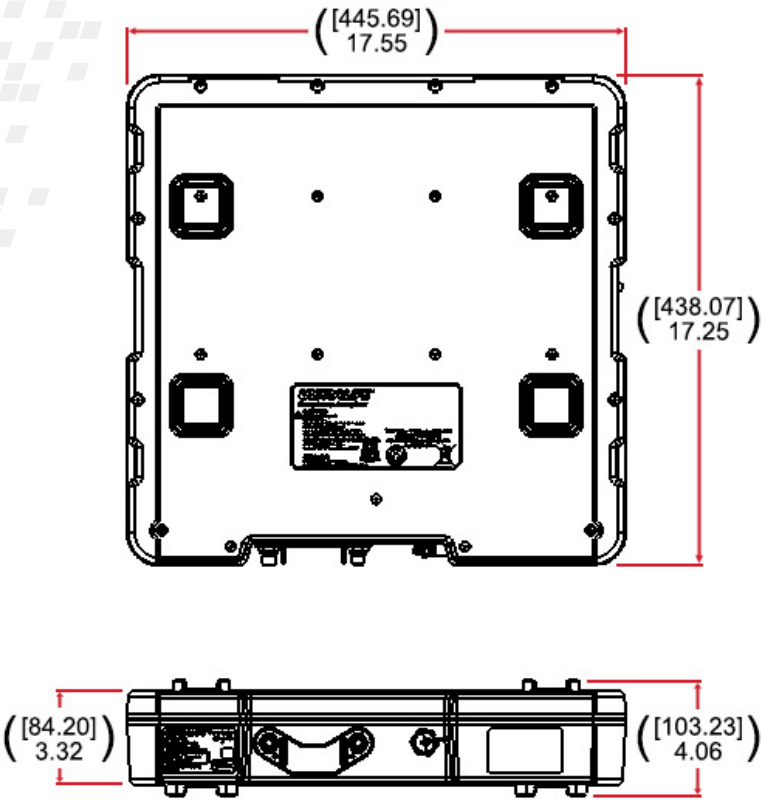
### Features

- Stacking enclosure, up to 6 units high. Patent Pending
- Strappable, can be strapped down
- Rugged, military tough case construction can handle severe environments
- Capable of 2000+ cycles, over 5 years of operation at 1 cycle per day
- High Energy Density
- Designed to fit in 19 inch rack spacing

### Typical Applications

- Rugged, portable electronics
- Robotics / AUVs / UUVs
- Military Modular Power Systems
- Vehicle mounted Auxiliary Power Systems

Dimensions



Units: [mm]  
in

