

URB0023 Stackable 24V Power Storage

Technical Datasheet



Features

- Stacking enclosure, up to 10 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
- Separate Empty Case is available / configurable to integrate other electronic items into the Power stack

Typical Applications

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

Technical Specifications

Part No	URB0023
NSN	TBD
Voltage Range	20V to 28.8V
Nominal Voltage	25.6V
Capacity¹	
Typical Capacity	54Ah
Minimum	50Ah
Max. Continuous Discharge	25.0A
Max. Pulse Discharge	50.0A (up to 15 Minutes)
Energy Rating	1.38 kWh
Energy Density	
Gravimetric	87Wh/kg
Volumetric	84Wh/L
Chemistry	Lithium Iron Phosphate (LiFePo4)
Weight	35.0lbs 15.9kg
Color	Desert Tan #33446 per FED-STD-595
Cycle Life²	>2000 cycles
Operating Temperature	-32°C to 65°C discharging; -20°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	UNDOT38.3
Protection	Over Voltage: 3.75V Under Voltage: 2.50V Transient Currents: 500A for < 2ms; TBD > TBDus Short Circuit Overcharge Protection: Up to 40V 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 Packing Instruction 965 Section IA Forbidden from transportation as cargo on Passenger aircraft Class 9 Dangerous Goods
Harmonized Tariff Schedule	8507.60.0000

Notes

1. Using a C/5 discharge rate at 25°C.
2. Number of consecutive C/5 rate discharges and recommended charges of 25±5°C until the battery reaches 80% of initial capacity.

Dimensions

