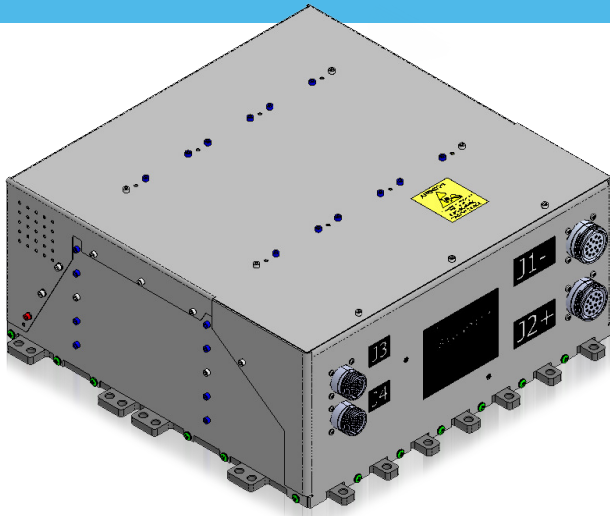




Space COTS Batteries



Low-cost, long-cycle life, Space COTS Battery

Features and Benefits

- Small Cell (18650)
- 2 baseline configurations
- Design life 5-15 years
- Cell type (18650) tailored to mission type
- Simple balancing electronics
- Current sense with amplifier
- Voltage and temperature telemetry
- Optional battery heaters
- Leverages ORION heritage brick design

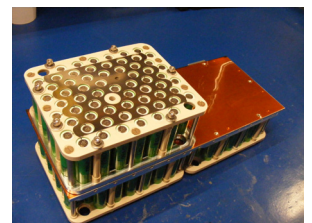
Specifications

Nominal Voltage	28.0 V
Maximum Voltage	33.6 V
Minimum Voltage	24.0 V
Max Discharge Current	100 A
Operating Temperature	-10 to 45°C (14 to 113°F)

Applications

- Low-earth orbit and geosynchronous-earth satellite missions
- Deep space exploration
- Baselined on several programs for launch in 2023

63p style brick



ORION brick



Model	Capacity (Battery AT)	Configuration	Cell Type*	Weight (kg)**	Length in.	Width in.	Height in.
SAR-10247	170 Ah	63P8S	Power	40	16.0	16.0	6.5
SAR-10247	198 Ah	63P8S	Energy				

* Battery cells are selected as to best fit the mission requirements
 ** Battery weight can vary based on cell selection

Space Qualified

Cell Selection

- Targets specific missions
- Cell evaluated through initial characterizations, accelerated life cycles and mission specific testing
- Battery-life predicted through modeling of test data and validated through continued testing

Space Qualified