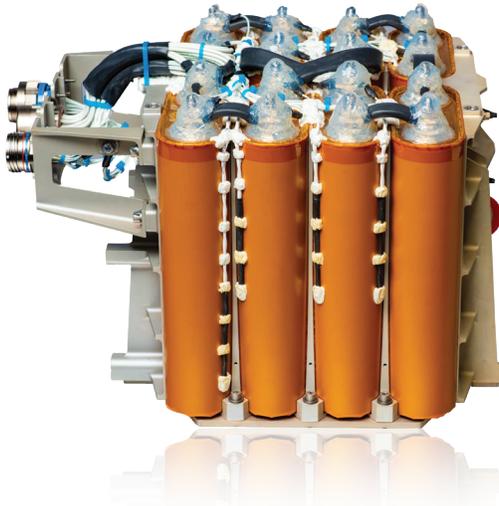




SAR-10207 Aerospace Battery



**Incorporating
lithium-ion cells
to deliver high energy
levels and long cycle life**

Lithium-Ion – Lithium Cobalt Oxide
Rechargeable

Features and Benefits

- Back-up temperature and voltage telemetry
- Built-in cell safety protection
- Space qualified battery for low-earth orbit (LEO) and geosynchronous-equatorial orbit (GEO) applications
- Space flight heritage
- High reliability > 0.99
- Built-in lifting points
- Connector savers for spacecraft integration and test bracket
- Custom connectors are keyed and clocked per customer specification; MIL-DTL-38999 and/or NASA-S-311-P-768 connectors available upon request
- Subjected to vibratory and thermal-vacuum testing

Applications

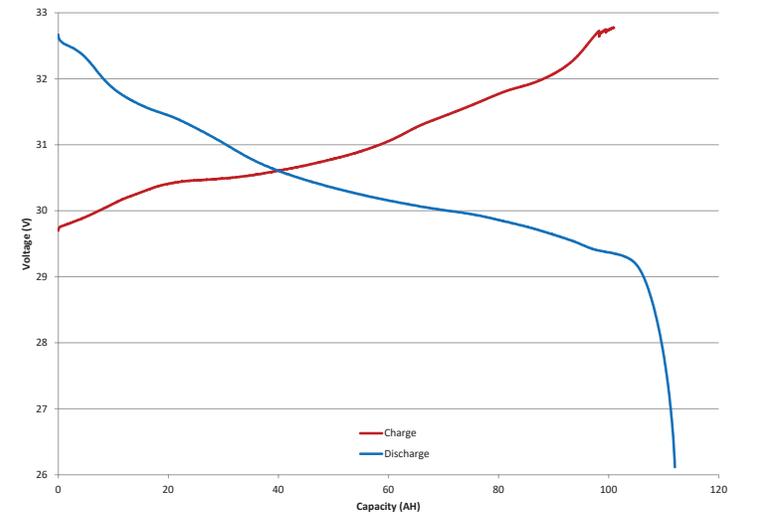
- Military communications and surveillance
- Commercial communication and broadcasting
- NASA research
- Environmental monitoring
- Global navigation and tracking

Specifications

Part Number	SAR-10207
Weight Not to Exceed	28.2 kg (62.0 lbs)
Maximum Dimensions	Width: 29.9 cm (10.6 in.) Length: 36.8 cm (14.5 in.) Height: 25.4 cm (10.0 in.)
Nominal Voltage	29.6 V
Operating Voltage	24.0 to 32.8 V
Beginning of Life Capacity/Energy	112 Ah/3315 Wh at 20°C (68°F)
Specific Energy	117 Wh/kg
Maximum Current Charge	50 A
Maximum Continuous Discharge	80 A
Maximum Discharge Pulse	166 A for 10 ms
Operating Temperature	-5 to 35°C (23 to 95°F)
Survival Temperature (non-operating)	-30°C to 40°C (-22 to 104°F)
Random Vibe Levels	7.9 g
Sine Vibe Levels	15 g
Shock Levels	1135 g

SAR-10207 Aerospace Battery

SAR-10207 Charge/Discharge Voltage Profiles



Additional Features*

- Autonomous cell bypass capability
- Primary and redundant heaters
- Detachable lifting feature

*Not pictured

