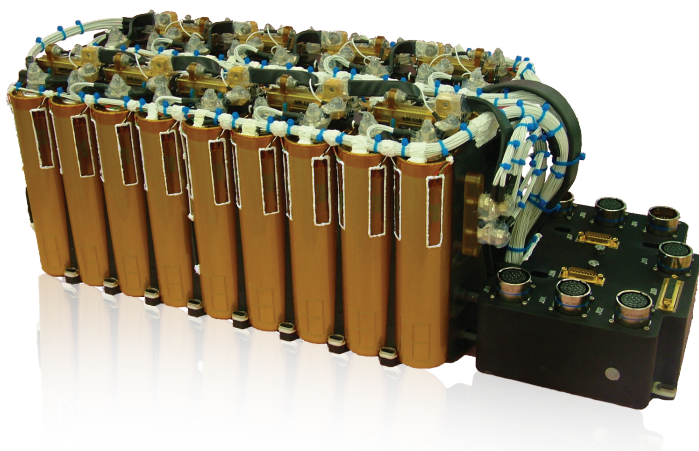




Lithium Ion, Lithium Cobalt Oxide



Rechargeable, Lithium Ion, Lithium Cobalt Oxide

Lithium ion provides high energy levels and long cycle life, at a low weight and small volume, with limited maintenance

Features and Benefits

- Autonomous cell bypass capability
- Primary and redundant heaters
- Back-up temperature and voltage telemetry
- Built-in cell safety protection
- Current sense capability
- Operational for 15-year mission life in geosynchronous equatorial orbit (GEO)
- Space flight heritage
- High reliability > 0.99
- Built-in lifting points with detachable lifting fixture
- Designed for radiation total-dose exposure of 3.11E6 rads
- Connector savers for spacecraft integration and test bracket
- Custom connectors 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

Specifications

Part Number	SAR-10197
Weight (not to exceed)	63.5 kg (140 lb)
Maximum Dimensions	Width: 26.9 cm (10.6 in.) Length: 74.9 cm (29.5 in.) Height: 26.4 cm (10.4 in.)
Nominal Voltage	33.3 V
Operating Voltage	27.0 to 35.8 V
Specific Energy	104.9 Wh/kg
Charge Current (maximum)	100 A
Maximum Continuous Discharge	154 A
Maximum Discharge Pulse	400 A for 1 sec
Operating Temperature	-5 to 35°C (23 to 95°F)
Survival Temperature	-5 to 35°C (23 to 95°F)
Random Vibe Levels	14 Grms
Sine Vibe Levels	15 G
Shock Level	1135 G

Applications

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

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