



## SAR-10211 Aerospace Battery



**Provides high-energy levels and long-cycle life at a low weight and small volume with limited maintenance**

Rechargeable, Lithium-ion, Lithium Nickel Cobalt Aluminum Oxide (NCA) Cells

### Features and Benefits

- Qualified for space flight
- Prismatic cell design
- Fully welded, hermetically-sealed construction
- Compression seals
- 175 ±20 psi rupture disk vent
- High-energy density
- Highly reliable
- Low-cyclic capacity fade
- Long calendar life
- Stainless steel case and cover

### Applications

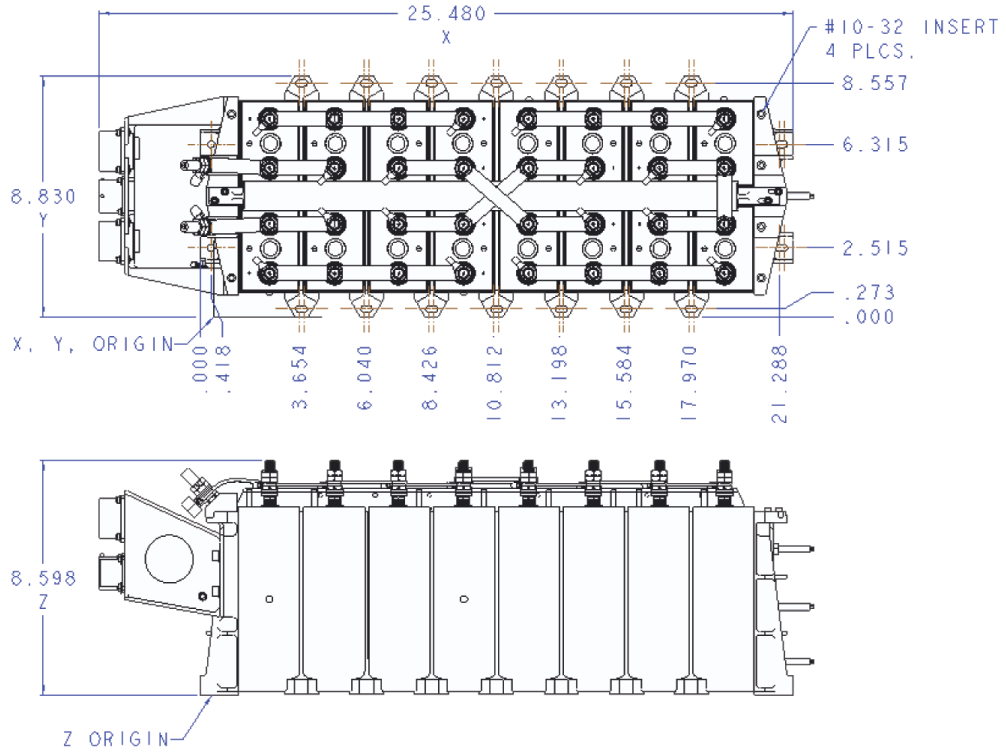
- Low-earth orbit (LEO) satellite missions
- Mid-earth orbit (MEO) satellite missions
- Geosynchronous-earth orbit (GEO) satellite missions
- Scientific and exploratory satellite missions
- Launch vehicle

### Specifications

Part Number	SAP-10211
Weight	38.6 kg (85.0 lbs)
Dimensions	Width: 224 mm (8.8 in.) Length: 640 mm(25.2 in.) Height: 218 mm (8.6 in.)
Beginning of Life Capacity	148 Ah, 4,380 Wh at 20°C (68°F) EOCV 4.1 CC/CV, C/2
Nameplate Capacity	140 Ah, 4,144 Wh at 20°C (68°F) EOCV 4.1 CC/CV, C/2
Charge Current Limit	72.0 A to 4.1 EOCV CC.CV
Discharge Current Limit	140.0 A to 3.0 EODV
Pulse Current Limit	292 A for 1 second
Specific Energy	113.5 Wh/kg
Storage Temperature	-5° to 5°C (23 to 41°F)
Survival Temperature	-10° to 40°C (14 to 104°F)
Operating Temperature	10° to 30°C (50 to 86°F)
Vibration Limit	Random 17.7 grms
Transportation	Class 9 ID number - UN 3090*

\* For complete transportation regulations, contact EaglePicher Technologies

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SAR-10211 Charge/Discharge Curves

