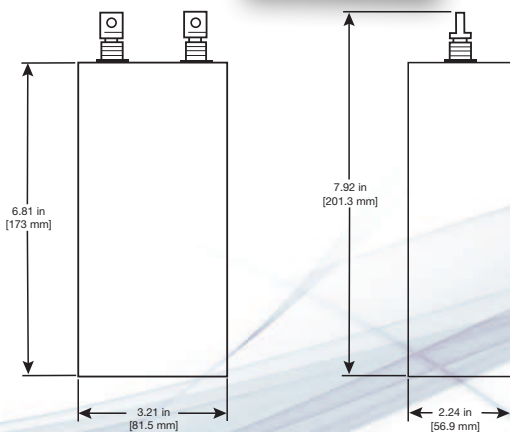


EaglePicher Space Cell

Lithium-Ion



Lithium-Ion provides higher energy levels at a lower weight and smaller volume than Ni-H₂ or Ni-Cd.



Features & 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

Specifications

| | |
|----------------------------|--|
| Part Number | SLC-16050 |
| Cell Design | Lithium-Ion Secondary Cell |
| Electrical | |
| Beginning of Life Capacity | 62.5 Ah, 245 Wh at 20°C EOCV 4.1 CC/CV, C/2 |
| Nameplate Capacity | 52 Ah, 204 Wh at 20°C EOCV 4.1 CC/CV, C/2 |
| Charge Current Limit | 31.25A to 4.1 EOCV CC/CV |
| Discharge Current Limit | 62.5A to 3.0 EODV |
| Pulse Current Limit | 125A for 10 seconds |
| Mechanical | |
| Weight | 2020 g/4.44 lb |
| Specific Energy | 121.3 Whr/kg |
| Energy Density | 305.4 Wh/l |
| Dimensions (less terminal) | 173 x 81.5 x 56.9 mm (6.81 x 3.21 x 2.24 in) |
| Storage Temperature | -5°C to 5°C (23°F to 41°F) |
| Operating Temperature | 10°C to 30°C (50°F to 86°F) |
| Vibration Limit | Random 24.7 g |
| Transportation | Class 9 ID number – UN3090* |

*For complete transportation regulations, contact EaglePicher Technologies, LLC

Applications

- ✦ Low-Earth Orbit (LEO) Satellite Mission
- ✦ Mid-Earth Orbit (MEO) Satellite Mission
- ✦ Geosynchronous-Earth Orbit (GEO) Satellite Mission
- ✦ Scientific and Exploratory Satellite Missions
- ✦ Launch Vehicle

SLC-16050

