Non-Rechargeable Lithium Carbon Monofluoride (Li/CF₃) Cell

Features and Benefits

- Wide operating temperature range
- Long-shelf life
- No start up voltage delay
- Fully welded, hermetically sealed construction
- High temperature and corrosion proof glass to metal seal
- 260 psi mechanical vent
- High-temperature shut down safety mechanism
- Short circuit protection
- Ability to withstand high-shock environments
- Ability to withstand high-vibration environments
- Passed nail penetration and UN transportation tests
- Negative case polarity
- High energy
- Ability to perform safely and reliably up to 165°C
- Easy integration within multi-cell tubular cylindrical packs

Specifications

- Part Number: LCF-137
- Weight: 90 g (3.2 oz)
- Height: 61 mm (2.4 in.)
- Diameter: 33 mm (1.3 in.)
- Open Circuit Voltage: 3.4 ±0.2V at 21°C (70°F)
- Nominal Voltage: 2.95 V
- Capacity: 16 Ah at 150°C (302°F) at 375 mA
- Specific Energy: 524 Wh/kg
- Energy Density: 905 Wh/L
- Maximum Continuous Charge: up to 1 A
- Maximum Pulse Current: up to 3 A
- Operating Temperature: -20 to 165°C (-4 to 329°F)
- Storage Temperature: -40 to 71°C (-40 to 160°F)
- Exterior Construction: Nickel plated steel
- Terminals/Connectors: Based upon customer preference
- Transportation: Class 9 Identification #UN3090

Applications

- Oil drilling, downhole and oil and gas well monitoring
- Sensors and beacons
- Data storage
- Black box recorders

1 At 150°C (302°F), 375 mA to 2.0 V
2 Maximum current can vary according to pulse characteristics, temperature and cell history
3 For complete transportation regulations, contact EaglePicher
3.4 Volt Primary D Cell

Discharge @ 375 mA (C/40 Rate)

- 165°C
- 150°C
- 125°C
- 90°C
- 21°C
- 20°C

Discharge capacity (Ah)

Cell Voltage (V)

ø33.3 mm

59 mm

61 mm