55Ah High Rate Lithium Ion Cell

Model LP 32770

Features & Benefits

- Case neutral
- Safety vent feature
- True prismatic design
- Hermetically sealed
- Stainless steel case
- Wide operational temperature range
- Vibration resistant
- Proven in demanding applications
- Advanced low temperature electrolyte
- High power
- Moderate energy

Applications

- Aircraft
- Aerospace

Specifications

- Model Number: LP 32770
- Nominal Capacity: 55Ah @ C/5 @ 20°C
- Nominal Voltage: 3.6 Volts
- Voltage Range: 3.0V to 4.10V
- Nominal Cell Impedance @ 2mΩ: 5mΩ
- Cycle Life to 80% Capacity: >2000 @ 100% DOD
- Measured at 0.5C discharge current at 20°C
- Nominal Cell Weight: 1.680kg
- Standard Charging Method:
  - Constant Current: 27.5A (0.5C) to 4.1V
  - Constant Voltage: 4.1V to 1.1A (C/50)
- Operating Temperature: -20°C to +60°C
- Storage Temperature: -40°C to +60°C
- Dimensions: See Detail on Back
- Energy Density: 343 Wh/L
- Specific Energy: 134 Wh/kg
- Discharge Rates:
  - Max Constant Current: 440A
  - Max Pulse Current (<1 sec): 560A
Discharge Rate Capability at C/5 and Various Temperatures

- C/5 at +40°C
- C/5 at +20°C
- C/5 at -20°C

Discharge Rate Capability at 20°C

- C/5 at +40°C
- C/2 at +20°C
- 1C at +20°C