



## 55 Ah Lithium-Ion Cell



**High energy, long life  
and low maintenance  
lithium-ion cell**

High-Energy Lithium-Ion Rechargeable Cell

### Features and 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

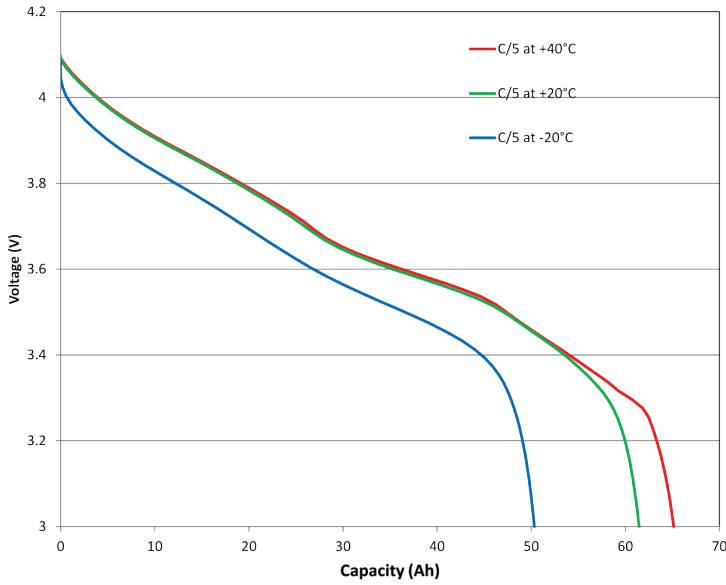
### Applications

- Aircraft
- Aerospace

Specifications	
Part Number	LP32770 (NCP55-4)
Nominal Cell Weight	1.68 kg (3.7 lb)
Dimensions (less terminal)	Width: 138 mm (5.42 in.) Height: 141 mm (5.56 in.) Depth: 34 mm (1.34 in.)
Nominal Capacity	55 Ah @ C/5 @ 20°C (68°F)
Nominal Voltage	3.6 V
Voltage Range	3.0 V to 4.1 V
Nominal Cell Impedance @ 50% SOC	<1 mΩ
Cycle Life to 80% Capacity Measured at 0.5 C discharge current at 20°C (68°F)	>2000 @ 100% DOD
Standard Charging Method	Constant Current: 27.5 A (0.5C) to 4.1 V Constant Voltage: 4.1 V to 1.1 A (c/50)
Energy Density	343 Wh/L
Specific Energy	134 Wh/kg
Storage Temperature	-40 to 60°C (-40 to 140°F)
Operating Temperature	-20 to 60°C (-4 to 140°F)
Discharge Rates	Max Constant Current: 440 A Max Pulse Current (<1 sec): 660 A

# 55 Ah Lithium Ion Cell

Discharge Rate Capability at C/5 and Various Temperatures



Discharge Rate Capability at 20°C

