



## 30Ah Space Cell



**High energy,  
long-cycle life and  
low maintenance  
lithium-ion cell for  
demanding  
applications**

Lithiated Nickel Cobalt Aluminum Oxide

### Features and Benefits

- Case neutral
- Safety vent feature
- True prismatic design
- Hermetically sealed
- Stainless steel case
- Long life: over 40,000 low-earth orbit cycles at 40% depth of discharge (DOD) over 10 years of operation
- Qualified for operation from -20 to 60°C (-4 to 140°F)

### Applications

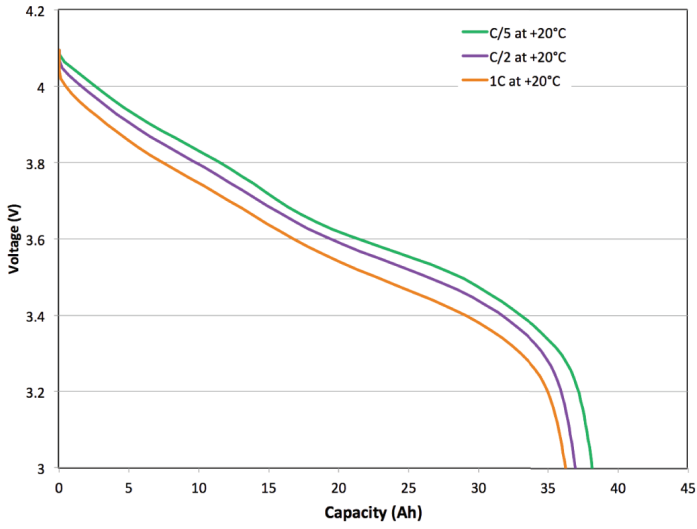
- Aerospace
- Mars landers
- Low-earth orbit satellite missions
- Mid-earth orbit satellite missions
- Geosynchronous-earth orbit satellite missions
- Scientific and exploratory satellite missions

### Specifications

Part Number	LP 33081
Nominal Cell Weight	950 g (2.1 lbs)
Dimensions	See details on back
Voltage Range	3.0 to 4.1V
Nominal Voltage	3.6V
Nominal Capacity	30Ah at C/5 at 20°C (68°F)
Energy Density	335 Wh/L
Specific Energy	141 Wh/kg
Discharge Rates	Max constant current 150A
	Max pulse current (<1 sec.) 300A
Nominal Cell Impedance	2mΩ at 20°C (68°F)
Cycle Life (80% capacity measured at 0.5C discharge current at 20°C (68°F))	>2000 at 100% DOD
Standard Charging Method	Constant current at 6A (C/5) to 4.1V
	Constant voltage at 4.1V to 0.6A (C/50)
Operating Temperature	-20 to 60°C (-4 to 140°F)
Storage Temperature	-40°C to 20°C (-40 to 68°F)

# 30Ah Space Cell

Discharge Rate Capability at 20°C



Discharge Capability at C/5 and Various Temperatures

