



12 Ah Space Cell



Lithiated Nickel Cobalt Aluminum Oxide

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

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)
- Proven reliability

Applications

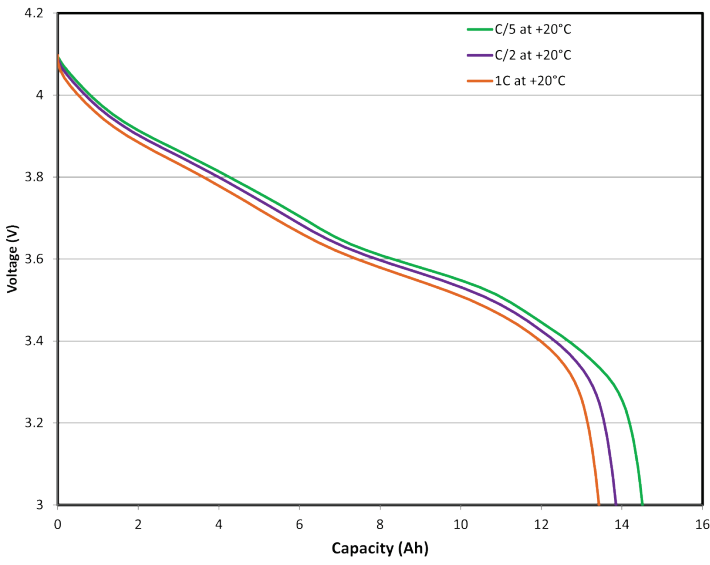
- Aerospace
- Mars landers
- Low-earth orbit satellite missions
- Mid-earth orbit satellite missions
- Geosynchronous-earth orbit satellite missions
- Scientific and exploratory satellite missions

Specifications

Part Number	LP32975
Nominal Cell Weight	465 g (1 lb)
Dimensions	See details on back
Voltage Range	3.0 to 4.1 V
Nominal Voltage	3.6 V
Nominal Capacity	12 Ah at C/5 at 20°C (68°F)
Energy Density	285 Wh/L
Specific Energy	114 Wh/kg
Discharge Rates	Max constant current 96 A
	Max pulse current (<1 sec.) 180 A
Nominal Cell Impedance	2.5mΩ 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 6 A (0.5C) to 4.1 V
	Constant voltage 4.10 V to 0.24 A (C/50)
Operating Temperature	-20 to 60°C (-4 to 140°F)
Storage Temperature	-40 to 60°C (-40 to 140°F)

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Discharge Rate Capability at 20°C



Discharge Rate at C/5 and Various Temperatures

