**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**

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

Discharge Rate Capability at 20°C

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

Discharge Capability at C/5 and Various Temperatures

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

NEGATIVE TERMINAL
(1.840)

POSITIVE TERMINAL

FILL TUBE
RUPTURE DISC
TAPE AND INSULATOR COVER
NOT SHOWN IN THIS VIEW FOR CLARITY

1.160
1.091
(1.108 NOM)

6.026
5.944
(5.985 NOM)

3.792
3.752
(3.771 NOM)

5.555
5.509
(5.532 NOM)

(2X \( \Phi \) .125)