MODEL ER32L100  
Lithium Thionyl Chloride (Li-SOCl2) Battery  
(International size reference: 1/6D, ER32L100)

ELECTRICAL CHARACTERISTICS  
(typical values for cells stored for one year or less, at 25ºC)

- **Nominal capacity**: 1.70 Ah  
  (at 1.0 mA, +25ºC, 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off voltage.)

- **Rated voltage**: 3.6 V

- **Maximum recommended continuous current**: 10 mA  
  (to get 50% of the nominal capacity at +25ºC with 2.0V cut off. Higher currents possible. Consult Omnicel.)

- **Pulse capability**: varies according to pulse characteristics (frequency and duration), temperature, cell history (storage conditions prior to usage) and the application's acceptable minimum voltage.

- **Maximum pulse current capability**: 50 mA  
  **Rated 1 sec. pulse capability (to 3V)**: 20 mA

- **Storage** (recommended)  
  -30ºC max  
  -55º / +120ºC  
  (possible without leakage)

- **Operating temperature range**: -55º / +85ºC  
  (Operation at temperature different from ambient may lead to reduced capacity and lower voltage plateau readings.)

**WARNING:**  
Fire, explosion and severe burn hazard. Do not recharge, crush, disassemble, heat above 212ºF (100ºC), incinerate, or expose contents to water.

**KEY FEATURES**

- High and stable operating voltage
- High minimum voltage during pulsing
- Low self discharge rate (less than 1% after 1 year of storage at +25ºC)
- Stainless steel container
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Compliant with IEC 86-4 safety standard and EN 50020 intrinsic safety
- Non restricted for transport
- Underwriters Laboratories (UL) Component Recognition  
  (File Number MH 47566)

**MAIN APPLICATIONS**

- Utility metering
- Alarms and security devices
- Memory back-up
- Tracking systems
- Tollgate systems
- Automotive electronics
- Professional electronics  
  … etc.

**Note:** Any representations in this data sheet concerning performance are for informational purpose only and are not construed as warranties, either expressed or implied, of future performance.
**DISCHARGE CHARACTERISTICS @ +25°C**

Voltage vs. Temperature

<table>
<thead>
<tr>
<th>Current (mA)</th>
<th>Voltage (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>3.6</td>
</tr>
<tr>
<td>200</td>
<td>3.5</td>
</tr>
<tr>
<td>300</td>
<td>3.4</td>
</tr>
<tr>
<td>400</td>
<td>3.3</td>
</tr>
<tr>
<td>500</td>
<td>3.2</td>
</tr>
<tr>
<td>600</td>
<td>3.1</td>
</tr>
</tbody>
</table>

**PHYSICAL CHARACTERISTICS**

- Diameter (max): 32.9 mm (1.295")
- Height (max): 10.5 mm (0.413")
- Typical weight: 24 g (0.847 oz)

**AVAILBLE TERMINATIONS**

Suffix -/P Tinned Nickel Pins

**STORAGE CHARACTERISTICS**

Discharge current: 1.0mA Temperature: 25°C

- Stored for 200 days at 60°C*
- Initial
- (*Equivalent to storage at 25°C for 10 years)

**ER32L100**

Latest version can be downloaded from the OmniCel website

[www.omnicel.com](http://www.omnicel.com) 800.332.2436