MODEL ER341245
Lithium Thionyl Chloride (Li-SOCl₂) Battery
(International size reference: DD, ER341245)

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

- **Nominal capacity**: 35 Ah
  (at 10.0 mA, +25°C, 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**: 420 mA
  (to get 50% of the nominal capacity at +25°C 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**: 500 mA
  - **Rated 1 sec. pulse capability (to 3V)**: 200 mA

- **Storage**: (recommended) 30°C max
  - **(possible without leakage)**: -55° / +120°C

- **Operating temperature range**: -55° / +85°C
  (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 212°F (100°C), 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 +25°C)
- Stainless steel container
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Compliant with IEC 86-4 safety standard and EN 50020 intrinsic safety
- Underwriters Laboratories (UL) Component Recognition (File Number MH 47566)

**MAIN APPLICATIONS**
- Utility metering
- Alarms and security devices
- Memory back-up
- Tracking 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 @+25ºC**

Voltage vs. Temperature

**VOLTAGE VS. TEMPERATURE**

Voltage (V) vs. Temperature (C)

- 3.5 V
- 3.0 V
- 2.5 V
- 2.0 V
- 1.5 V
- 1.0 V

**AVAILABLE TERMINATIONS**

- Suffix –/S Standard
- Suffix –/T Solder Tabs
- Suffix –/W Wire Leads

**PHYSICAL CHARACTERISTICS**

- Diameter (max) 32.9 mm (1.295”)
- Height (max) 124.5 mm (4.901”)
- Typical weight 195 g (6.878oz)

**CAPACITY VS. CURRENT**

Capacity (Ah) vs. Current (mA)

**STORAGE CHARACTERISTICS**

Discharge current: 10mA. Temperature: 25ºC

- Stored for 200 days at 60ºC
- Initial voltage

*Equivalent to storage at 25ºC for 10 years*

**TIME (h)**

<table>
<thead>
<tr>
<th>TIME (h)</th>
<th>VOLTAGE (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4.0</td>
</tr>
<tr>
<td>10</td>
<td>3.5</td>
</tr>
<tr>
<td>100</td>
<td>3.0</td>
</tr>
<tr>
<td>1,000</td>
<td>2.5</td>
</tr>
<tr>
<td>10,000</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**ER341245**

**www.omnicel.com**

800.332.2436

Latest version can be downloaded from the OmniCel website