MODEL ER26500
Lithium Thionyl Chloride
(Li-SOCI2) Battery
(International size reference: C, ER26500)

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

- **Nominal capacity** | 8.50Ah
  (at 4.0 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** | 170 mA
  (to get 50% of the Nominal capacity at +25°C with the 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** | 300 mA
  **Rated 1 sec. pulse capability (to 3V)** | 50 mA

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

- **Operating temperature range** | -55°C / +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 @ +25°C**

![Graph showing voltage vs. time for discharge characteristics at +25°C.]

**VOLTAGE VS. TEMPERATURE**

![Graph showing voltage vs. temperature.]

**CAPACITY VS. CURRENT**

![Graph showing capacity vs. current.]

**AVAILABLE TERMINATIONS**
- Suffix—/S Standard
- Suffix—/T Solder Tabs
- Suffix—/W Wire Leads

View available terminations

**PHYSICAL CHARACTERISTICS**
- Diameter (max) 26.2 mm (1.031”)
- Height (max) 50.0 mm (1.970”)
- Typical weight 52 g (1.834 oz)

**STORAGE CHARACTERISTICS**
- Discharge current: 4.0mA
- Temperature: 25°C

stored for 200 days at 60°C

*Equivalent to storage at 25°C for 10 years*