MODEL ER14505
Lithium Thionyl Chloride (Li-SOCl₂) Battery
(International size reference: AA, ER14505)

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

- **Nominal capacity** 2.40Ah
  (at 2.0 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** 100 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** 200 mA
  **Rated 1 sec. pulse capability (to 3V)** 60 mA

- **Storage**
  - recommended
  - possible without leakage
  30°C max
  -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
- Up to 10% more capacity than the high drain version
- 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
- Non restricted for transport

**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

VOLTAGE VS. TEMPERATURE

CAPACITY VS. CURRENT

AVAILABLE TERMINATIONS
- Suffix–/S Standard
- Suffix–/T Solder Tabs
- Suffix–/P Axial Pins
- Suffix–/2PT Polarized Tabs
- Suffix–/3TP Polarized Tabs
- Suffix–/3PT Polarized Tabs
- Suffix–/3PF Polarized Tabs
- Suffix–/3FP Polarized Tabs
- Suffix–/4PF Polarized Tabs

View available terminations

PHYSICAL CHARACTERISTICS
- Diameter (max) 14.5 mm (0.571”)
- Height (max) 50.5 mm (1.99”)
- Typical weight 19 g (0.670oz)

STORAGE CHARACTERISTICS
- Discharge current: 2.0mA Temperature: 25°C

Initial

Stored for 200 days at 60°C

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

www.omnicel.com
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Latest version can be downloaded from the OmniCel website