



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 (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.)	2.40Ah
■ Rated voltage	3.6 V
■ Maximum recommended continuous current (to get 50% of the nominal capacity at +25°C with 2.0V cut off. Higher currents possible. Consult Omnicel.)	100 mA
■ 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 Rated 1 sec. pulse capability (to 3V)	200 mA 60 mA
■ Storage (recommended) (possible without leakage)	30°C max -55° / +120°C
■ Operating temperature range (Operation at temperature different from ambient may lead to reduced capacity and lower voltage plateau readings.)	-55° / +85°C

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
- ⚠ Underwriters Laboratories (UL) Component Recognition (File Number MH 47566)

MAIN APPLICATIONS

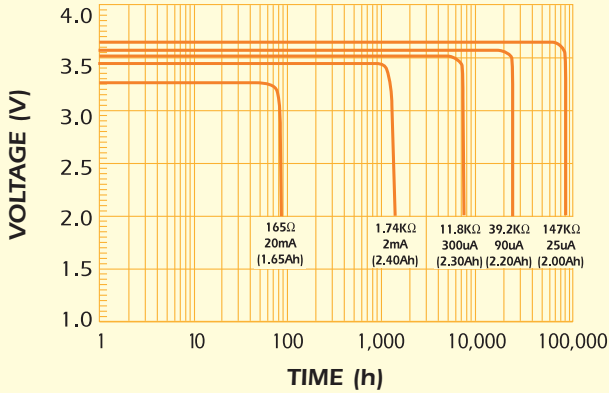
- ✓ Utility metering
- ✓ Alarms and security devices
- ✓ Memory back-up
- ✓ Tracking systems
- ✓ Automotive electronics
- ✓ Professional electronics ... etc.

⚠ WARNING:

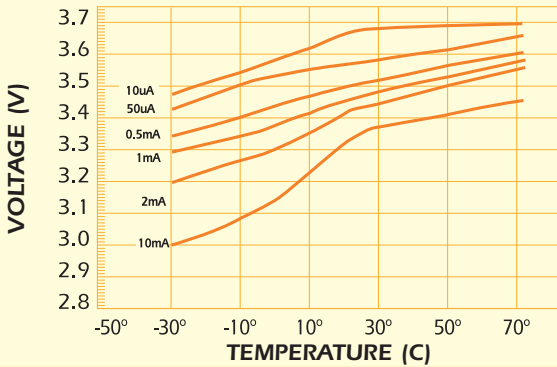
Fire, explosion and severe burn hazard. Do not recharge, crush, disassemble, heat above 212°F (100°C), incinerate, or expose contents to water.

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.

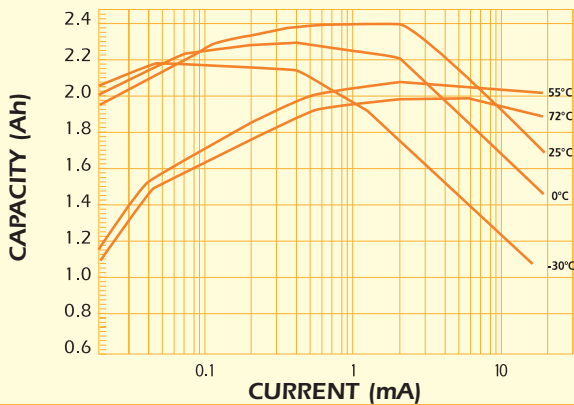
DISCHARGE CHARACTERISTICS @ +25°C



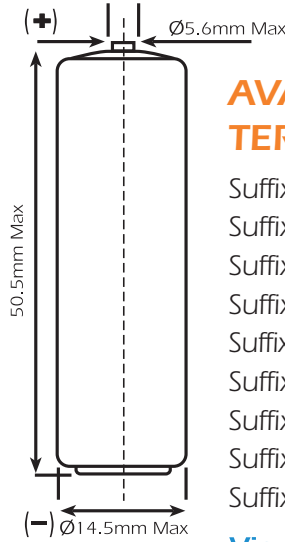
VOLTAGE VS. TEMPERATURE



CAPACITY VS. CURRENT



ER14505



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

