



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 +30°C max.)

■ **Nominal capacity** **2.80Ah**
 (At 1.0 mA, +20°C, 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off voltage.)

■ **Nominal voltage** **3.6 V**

■ **Maximum continuous current** **60 mA**
 (Higher currents possible, consult OmniCel)

■ **Maximum pulse capability:** **Typically up to 150 mA**

■ **Storage** (Recommended) **+30°C max.**
 (For more severe condition consult OmniCel)

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

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
- ✓ Non-restricted for transport
- ✓ Compliant with IEC 60086-4 safety standard and EN 60079-11 intrinsic safety standard
- UL Underwriters Laboratories (UL) Component Recognition (File Number MH 28717)

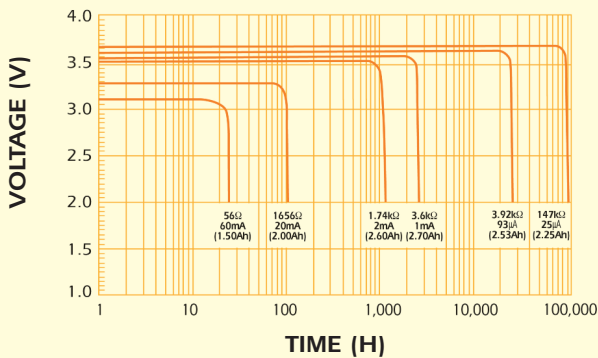
MAIN APPLICATIONS

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

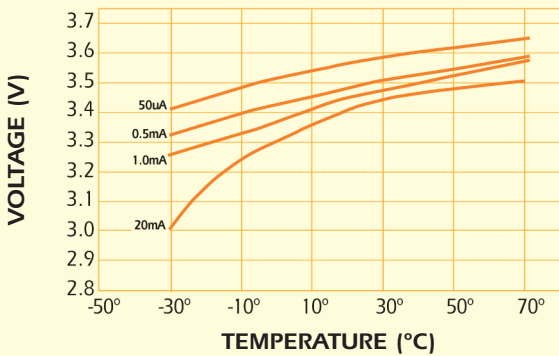
WARNING:

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

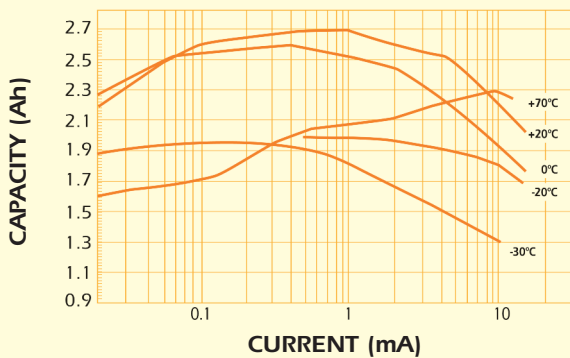
Typical Discharge Profile @ +20°C (Typical value)



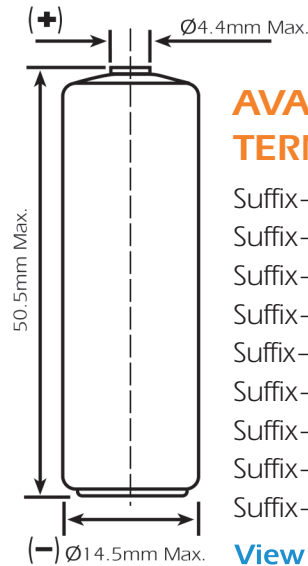
Voltage Plateau versus Current and Temperature (At min. discharge)



Capacity versus Current and Temperature (2.0 V cut off) (Typical value)



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 (0.570")
■ Height (max)	50.5 mm (1.98")
■ Typical weight	19 g (0.670oz)
■ Lithium content	0.69 g (0.024oz)

Storage Characteristics

