



**MODEL ER18505**  
**Lithium Thionyl Chloride**  
**(Li-SOCl<sub>2</sub>) Battery**

(International size reference: A, ER18505)

**ELECTRICAL CHARACTERISTICS**

(Typical values for cells stored for one year or less, at +30°C max.)

■ **Nominal capacity** **4.0Ah**  
 (At 3.0 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 recommended continuous current** **130 mA**  
 (Higher currents possible, consult OmniCel)

■ **Maximum pulse capability** **Typically up to 180 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
- ✓ Restricted for transport (class 9)
- ✓ Compliant with IEC 60086-4 safety standard and EN 60079-11 intrinsic safety standard
- ✓ Underwriters Laboratories (UL) Component Recognition (File Number MH 28717)

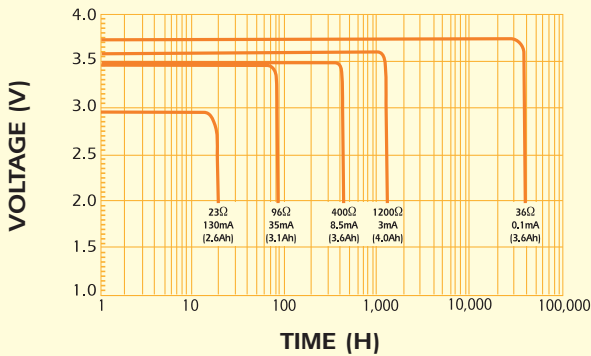
**MAIN APPLICATIONS**

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

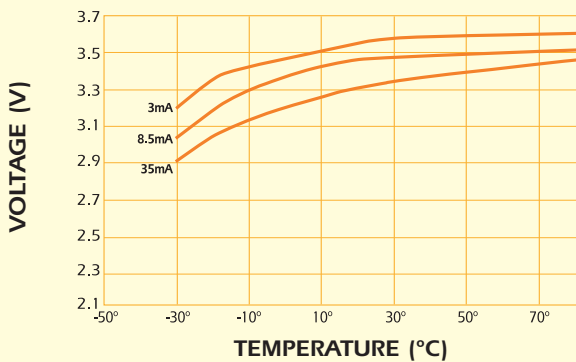
**WARNING:**

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.

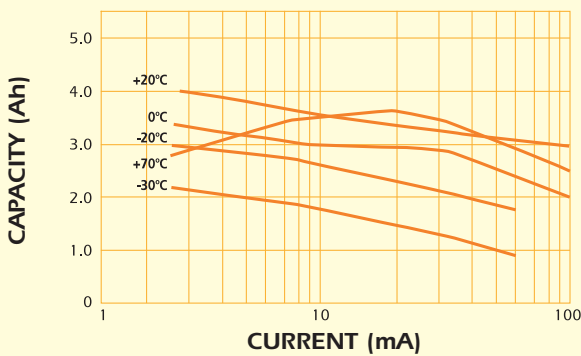
### Typical Discharge Profile at +20°C (Typical value)



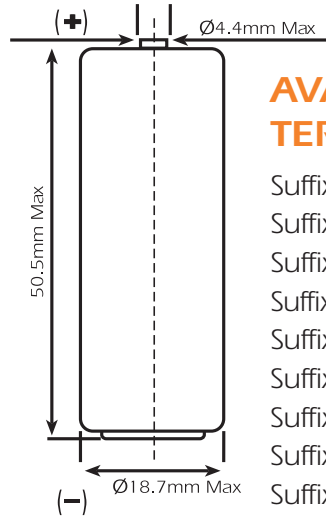
### Voltage Plateau versus Current and Temperature (At min. discharge)



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



## ER18505



### AVAILABLE TERMINATIONS

Suffix -/S	Standard
Suffix -/T	Solder Tabs
Suffix -/2PT	Polarized Tabs
Suffix -/3TP	Polarized Tabs
Suffix -/3PT	Polarized Tabs
Suffix -/3PF	Polarized Tabs
Suffix -/3FP	Polarized Tabs
Suffix -/4PF	Polarized Tabs
Suffix -/W	Wire Leads

[View available terminations](#)

### Physical Characteristics

■ Diameter (max)	18.7 mm (0.728")
■ Height (max)	50.5 mm (1.988")
■ Typical weight	28.0 g (0.988 oz)
■ Lithium content	.98 g (0.034 oz)

### Storage Characteristics

