

# Technical Specification

Lithium-thionyl Chloride (Li-SOCl<sub>2</sub>) Battery



**EUROPA  
BATTERIES**

## ER18505M

A - size spiral cell

### ELECTRICAL CHARACTERISTICS

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

<b>Nominal Capacity</b>	<b>3.2 Ah</b>
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(At 10.0 mA, +25°C, 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off voltage.)

<b>Nominal Voltage</b>	<b>3,6V</b>
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<b>Maximum recommended continuous current</b>	<b>1000mA</b>
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(To get 50% of the nominal capacity at +25°C with 2V cut off. Higher currents possible, consult EUROPA Batteries.)

**Pulse capability:** Typically up to 2000mA (2000mA/0.1 second pulses, drained every 2 min at 25°C from undischarged cells with 10µA base current, yield voltage readings above 3.0V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history. Fitting cell with a capacitor may be recommended in severe conditions. Consult EUROPA Batteries.)

<b>Storage</b> (recommended)	<b>30°C max</b>
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(for more severe condition consult EUROPA Batteries)

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

<b>Typical weight</b>	<b>30g</b>
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### BENEFITS

- ✓ High Voltage response
- ✓ Wide operating temperature range (-55~+85°C)
- ✓ High minimum voltage during pulsing
- ✓ Excellent low temperature performance
- ✓ Built-in safety vent

### KEY FEATURES

- ✓ Low self discharge rate (less than 3% after 1 year of storage at +25°C)
- ✓ Stainless steel container
- ✓ Hermetic glass-to-metal sealing
- ✓ Non-flammable electrolyte
- ✓ Restricted for transport (class9)
- ✓ Compliant with IEC 86-4 safety standard and EN 50020 intrinsic safety
- ☒ Underwriters Laboratories (UL) Component Recognition (File Number MH29130)

### MAIN APPLICATIONS

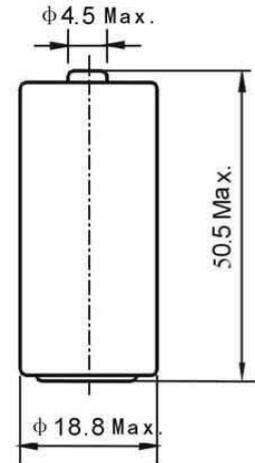
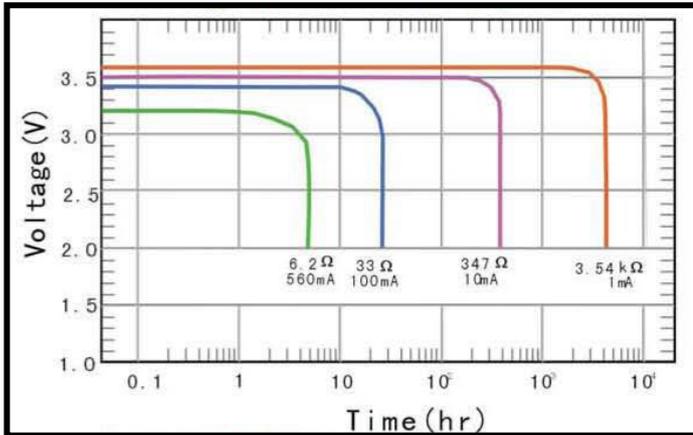
- ✓ Radiocommunication and other military applications
- ✓ Alarms and security devices
- ✓ Beacons and emergency location transmitters
- ✓ GPS
- ✓ Metering systems
- ✓ Tracking systems
- ✓ GSM communication
- ...etc.

### ☒ WARNING:

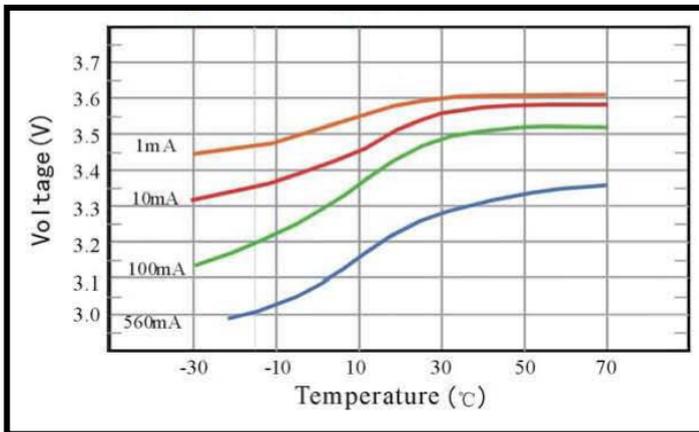
Fire, explosion and severe burn hazard. Do not recharge, crush, disassemble, heat above 100°C, incinerate, or expose contents to water.

Note: Any representations in this data sheet concerning performance are informational purpose only and are not construed as warranties, either expressed or implied, of future performance.

## 1. DISCHARGE CHARACTERISTICS @25°C



## 2. VOLTAGE VS. TEMPERATURE



### AVAILABLE TERMINATIONS

Suffix-/S	Standard
Suffix-/T	Solder Tabs
Suffix-/W	Flying leads

[View available terminations](#)

## 3. CAPACITY VS. CURRENT

