



International size reference: AA

ER14505

Lithium-thionyl Chloride
(Li-SOCl₂) Battery

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 MH28717)

MAIN APPLICATIONS

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

ELECTRICAL CHARACTERISTICS

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

Nominal capacity 2.7Ah

(At 2 mA, +25°C, 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off voltage.)

Nominal voltage 3.6V

Maximum continuous current 50mA

(For the fresh cell* to get 50% of the nominal capacity at +25°C 2.0V cut off. Higher currents possible, consult EVE.)

Maximum pulse capability: Typical up to 150mA

(150mA/0.1 second pulse, drained every 2 min at 25°C from undischarged cells with 10uA base current, yield voltage readings above 3.0V. This data is based on the fresh battery* performance, voltage readings may vary according to the pulse characteristics, the temperature, and the cell's previous history.

Fitting the cell with a Lithium-ion Battery Capacitor or a capacitor may be recommended in severe conditions, consult EVE.

Storage (recommended) +30°C max
(for more severe condition consult EVE)

Operating temperature range -60°C / +85°C

(Operation at temperature different from ambient may lead to reduced capacity and lower voltage plateau readings.)

Typical weight 19g

*Fresh cell/battery:

Defined as the cell or battery that stored at +25°C max. Within 3 months.

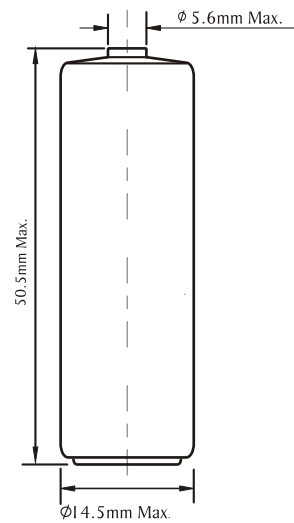
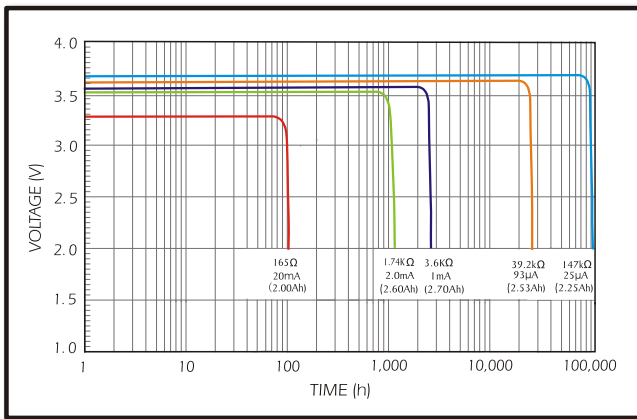
WARNING:

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

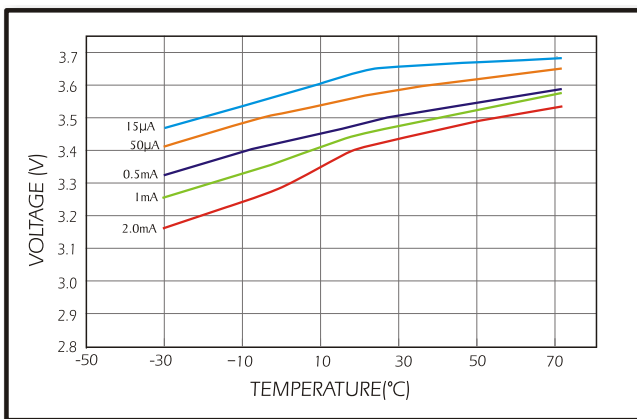
Do not solder directly to the cell, use tabbed cell instead.

ER14505

1. Typical discharge profile at +25°C (Median value)



2. Voltage plateau versus Current and Temperature (at mid-discharge)

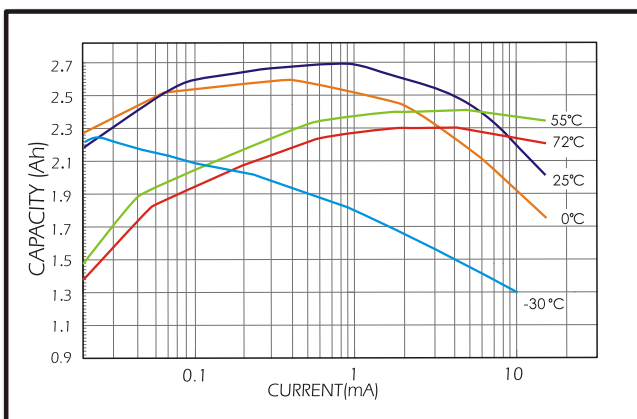


AVAILABLE TERMINATIONS

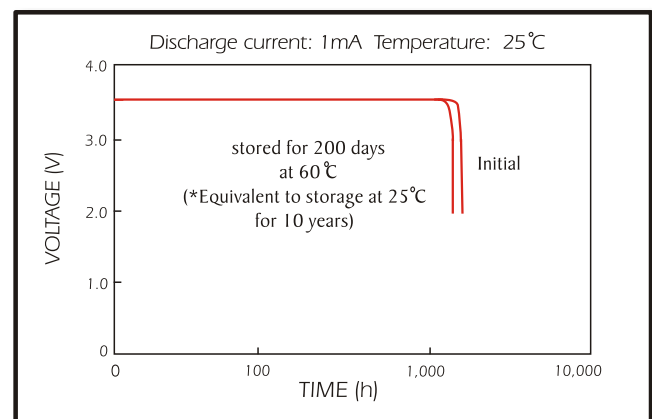
Suffix-/S	Standard
Suffix-/P	Axial Pins
Suffix-/T	Solder Tabs
Suffix-/2PT	Radial Pins
Suffix-/3PT/3TP	Radial Pins

[View available terminations](#)

3. Capacity versus Current and Temperature (2.0V cut off)



4. STORAGE CHARACTERISTICS



Attention:

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EVE ENERGY CO., LTD.

Address: EVE Industrial Park, XiKeng Industrial zone, Huihuan Town, Huizhou, Guangdong, China

Operator: (86-752)260 6966 Fax: (86-752)260 6033

<http://www.evebattery.com> Email: sales@evebattery.com

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