ENERGY VERY ENDURE

ER14250

Lithium-thionyl Chloride ($Li\text{-}SOCl_2$) Battery

International size reference: *1/2AA*

ELECTRICAL CHARACTERISTICS

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

Nominal capacity — *1.2Ah*

(At 1 mA, +25℃, 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 — *15mA*

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

Maximum pulse capability: — *Typical up to 50mA*

(50mA/0.1 second pulse, drained every 2 min at 25℃ from undischarged cells with 10uA base current, yield voltage readings above 3.0V. This data is base 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 servere conditions, consult EVE.

Storage *(recommended)* — *+30℃ max*

(for more severe condition consult EVE)

Operating temperature range — *-60℃ / +85℃*

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

Typical weight — *10g*

*Fresh cell/battery:
Defined as the cell or battery that stored at +25℃ max. Within 3 months.

KEY FEATURES

- ✔ High and stable operating voltage
- ✔ High minimum voltage during pulsing
- ✔ Low self discharge rate (less than 1% after1 year of storage at+25℃)
- ✔ 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
- Underwriters Laboratories (UL) Component Recognition (File Number MH28717)

MAIN APPLICATIONS

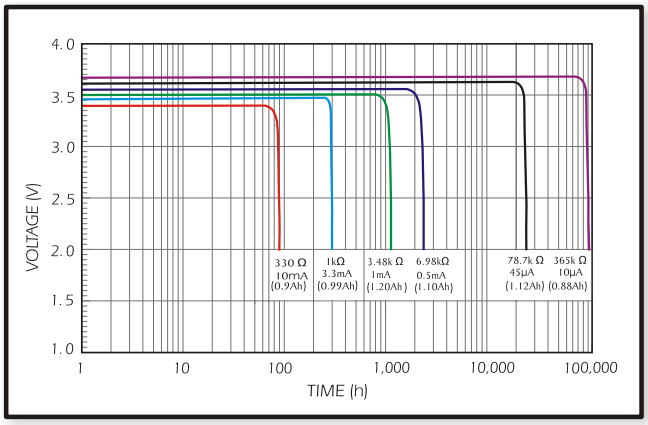
- ✔ Utility metering
- ✔ Alarms and security devices
- ✔ Memory back-up
- ✔ Tracking systems
- ✔ Automotive electronics
- ✔ Professional electronics ... etc.

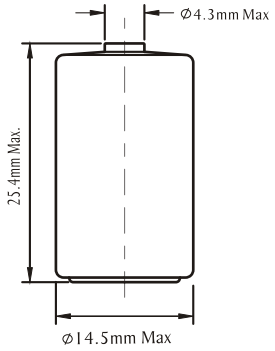
WARNING:

Fire, explosion and severe burn hazard. Do not recharge, crush, disassemble, heat above 100℃, incinerate, or expose contents to water.
Do not solder directery to the cell, use tabbed cell intead.

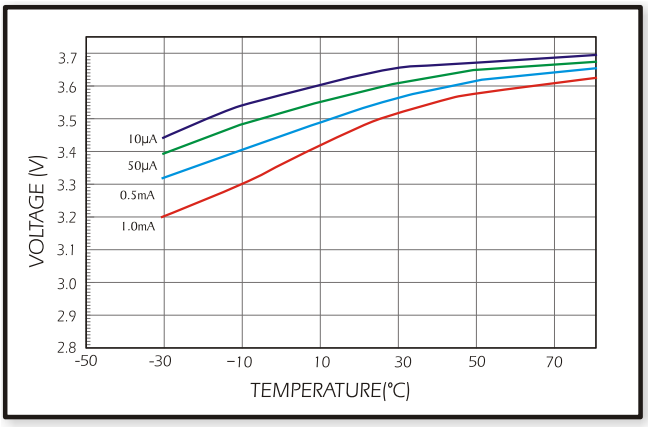
ER14250

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





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

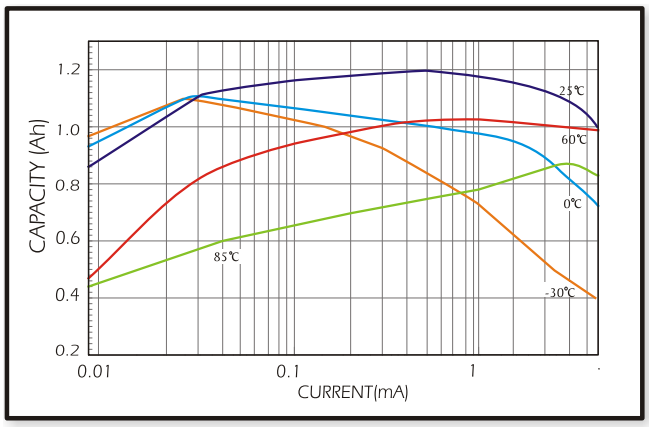


AVAILABLE TERMINATIONS

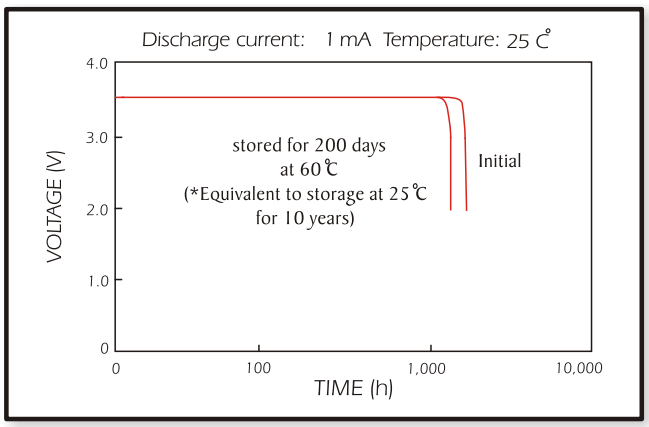
Suffix-/S	*Standard*
Suffix-/P	*Axial Pins*
Suffix-/T	*Solder Tabs*
Suffix-/2PT	*Radial Pins*
Suffix-/3PT/3TP	*Radial Pins*

View available terminations

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



4. STORAGE CHARACTERISTICS



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