TECHNICAL SPECIFICATION ER14250

MODEL ER14250
Lithium Thionyl Chloride
($Li\text{-}SOCl_2$) Battery
(International size reference: 1/2AA, ER14250)

ELECTRICAL CHARACTERISTICS

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

- **Nominal capacity** **1.20Ah**
  (at 1.0 mA, +25°C, 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off voltage.)

- **Rated voltage** **3.6 V**

- **Maximum recommended continuous current** **40 mA**
  (to get 50% of the nominal capacity at +25°C with 2.0V cut off. Higher currents possible. Consult Omnicel.)

- **Pulse capability:** varies according to pulse characteristics (frequency and duration), temperature, cell history (storage conditions prior to usage) and the application's acceptable minimum voltage.

- **Maximum pulse current capability** **100 mA**
  Rated 1 sec. pulse capability (to 3V) **20 mA**

- **Storage** (recommended) **30°C max**
  (possible without leakage) **-55° / +120°C**

- **Operating temperature range** **-55° / +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
- ✔ Compliant with IEC 86-4 safety standard and EN 50020 intrinsic safety
- ✔ Non restricted for transport
- Underwriters Laboratories (UL) Component Recognition (File Number MH 28717)

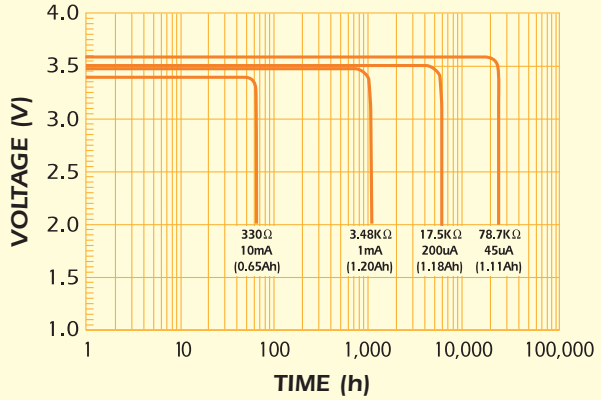
MAIN APPLICATIONS

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

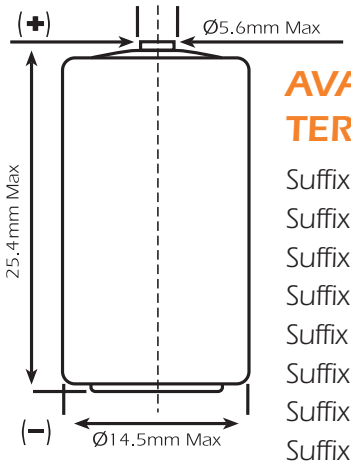
WARNING:
Fire, explosion and severe burn hazard. Do not recharge, crush, disassemble, heat above 212°F (100°C), incinerate, or expose contents to water.

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

DISCHARGE CHARACTERISTICS @ +25°C



ER14250

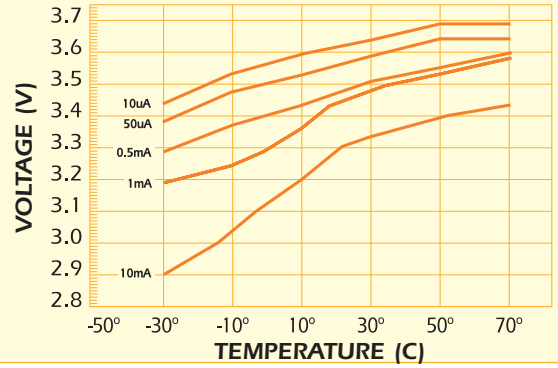


AVAILABLE TERMINATIONS

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

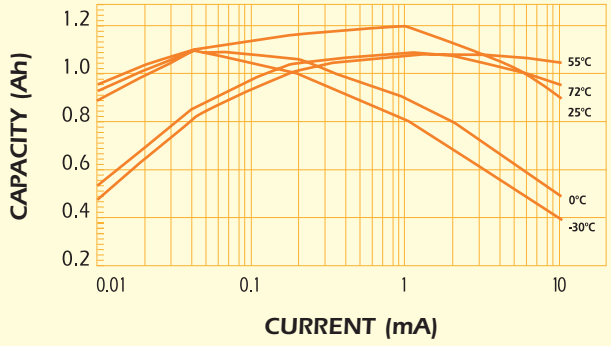
VOLTAGE VS. TEMPERATURE



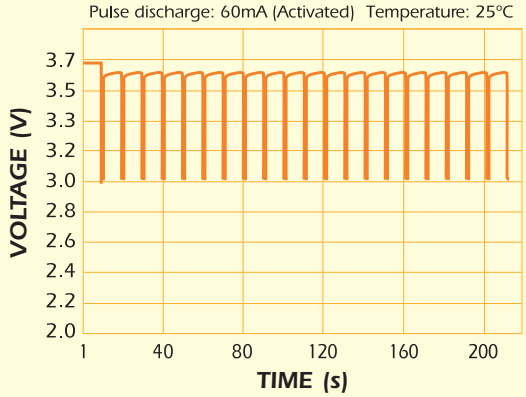
PHYSICAL CHARACTERISTICS

Diameter (max)	14.5 mm (0.571")
Height (max)	25.4 mm (0.992")
Typical weight	10 g (0.353oz)

CAPACITY VS. CURRENT



PULSE DISCHARGE CHARACTERISTICS



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