Primary lithium battery

LS 14500C

3.6 V Primary lithium-thionyl chloride (Li-SOCI₂) High energy density AA-size bobbin cell (recommended for cool temperature environments)

Preferably for moderate temperature uses (i.e. indoor applications with occasional T excursions up to +70°C) requesting superior voltage response and operating life.



Key features

- High and stable operating voltage
- Superior voltage response during pulsing at ambient T
- Up to 20 % more capacity than the standard version
- Low self-discharge rate (less than 1 % after 1 year of storage at + 20 °C)
- Stainless steel container and end caps (low magnetic signature)
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Compliant with IEC 86-4 safety standard and IEC 60079-11 intrinsic safety standard
- Underwriters Laboratories (UL)
 Component Recognition
 (File Number MH 12609)
- Non-restricted for transport

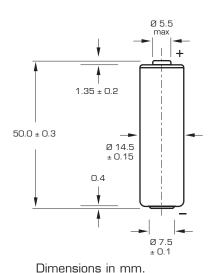
Main applications

- Utility metering
- Alarms and security devices
- Memory back-up
- Tracking systems
- Professional electronics

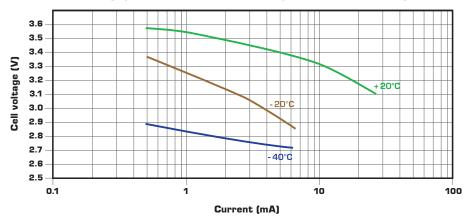
| Cell size referend | ces | | R6 - AA |
|---|---|---|-----------------------------------|
| Electrical characteri | stics | | |
| (typical values relative to | cells stored for one year or less | at + 30°C max.) | |
| Nominal capacity | | | 2.7 Ah |
| | cut-off. The capacity restored by in, temperature and cut-off) | the cell varies | |
| Open circuit voltage | (at + 20°C) | | 3.67 V |
| Nominal voltage | (at 0.5 mA + 20°C) | | 3.6 V |
| Nominal energy | | | 9.72 Wh |
| current, yield voltage reato the pulse characteristi | 20°C from undischarged cells w dings above 3.0 V. The readings ics, the temperature, and the ce acitor may be recommended in s | s may vary accord Il's previous histo | ory. |
| Maximum recommended (Higher currents are pos | | | 25 mA |
| Storage | (recommended) (for more severe conditions, o | consult Saft) | + 30°C (+ 86°F) max |
| Operating temperature range (Operation at T different from ambient may lead to reduced capacity and lower voltage plateau readings. Consult Saft) | | | - 60°C/+ 70°C (- 76°F/+ 158°F) |
| Physical characteris | tics | | |
| Diameter (max) | | | 14.65 mm (0.58 in) |
| Height (max) | | | 50.3 mm (1.98 in) |
| Typical weight | | | 16.2 g (O.6 oz) |
| Li metal content | | | approx. 0.7 g |
| Available termination suff | ix: CN, CNR 2 PF, 3 PF, 3 PF RP, 4 PF CNA (AX) FL | radial tabs radial pins axial leads flying leads | etc. |



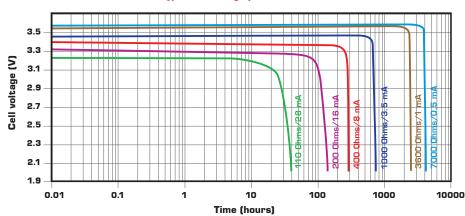
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Voltage plateau versus Current and Temperature (at mid-discharge)



Typical discharge profiles at + 20°C



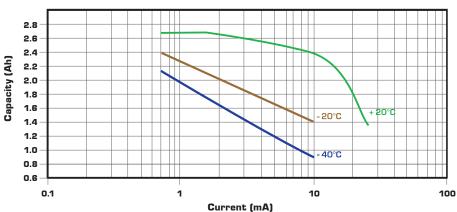
Storage

 The storage area should be clean, cool (preferably not exceeding + 30°C), dry and ventilated.

Warning

- Fire, explosion and burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 100°C (212°F), incinerate, or expose contents to water.
- Do not solder directly to the cell (use tabbed cell versions instead).

Restored Capacity versus Current and Temperature (2.0 V cut-off)



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Information in this document is subject to change without notice and becomes contractual only after written confirmation by Saft.

For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc N° 31048-2.

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