

### **Datasheet**

## Primary lithium battery

RS Stock No: 7781119

3.6 V Primary lithium-thionyl chloride (Li-SOCl<sub>2</sub>) High energy density C-size bobbin cell

### **ENGLISH**



#### **Benefits**

- High voltage response, stable during most of the lifetime of the application
- Wide operating temperature range (-60°C/+85°C)
- Low self-discharge rate (less than 1 % after 1 year of storage at + 20°C)
- Easy integration into compact systems
- Superior resistance to atmospheric corrosion

### Key features

- Stainless steel container and end caps (low magnetic signature)
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Underwriters Laboratories (UL)
   Component Recognition
- Compliant with IEC 60086-4 safety standard and IEC 60079-11 intrinsic safety standard
- Restricted for transport (Class 9)

#### Main applications

- Utility metering
- Automatic meter readers
- Buoys
- Measuring equipment
- Industrial applications
- Professional electronics

### Optional upon request

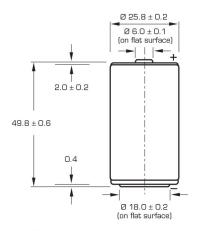
Low magnetic version

	rences		C
Electrical charac	cteristics		
(typical values relativ	ve to cells stored for one year (	or less at + 30°C .	max.)
	O V cut-off. The capacity restor t drain, temperature and cut-o	,	7.7 Ah <i>es</i>
Open circuit voltage	(at +20°C)		3.67 V
Nominal voltage	(at 0.5 mA + 20°C)		3.6 V
Nominal energy			27.72 Wh
(300 mA/0.1 seco base current, yield characteristics, the	ically up to 300 mA ind pulses, drained every 2 mn voltage readings above 3.0 V. I temperature, and the cell's pi ded in severe conditions. Consul	. The readings ma revious history. Fit	ny vary according to the puls
	ended continuous current ssible, consult Saft)		150 mA
Storage	(recommended) (for more severe conditions	s, consult Saft)	+30°C (+86°F) max
Operating temperature range (Operation above ambient T may lead to reduced capac lower voltage readings at the beginning of pulses. Cons		,	- 60°C/+85°C (-76°F/+185°F)
lower voltage readin			
lower voltage readin  Physical charact	eristics		
	ceristics		26.0 mm (1.02 in)
Physical charact	ceristics		26.0 mm (1.02 in) 49.1 mm or 50.4 mm (1.93 in or 1.98 in) depending on finish type
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Physical charact Diameter (max) Height (max)	ceristics		49.1 mm or 50.4 mm (1.93 in or 1.98 in) depending on finish type

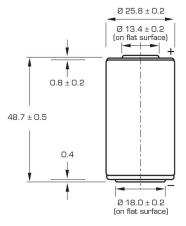


### **ENGLISH**

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



# Finished version with protruding positive end cap



# Finished version with flat positive end cap

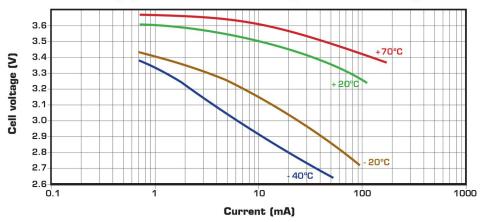
Dimensions in mm.

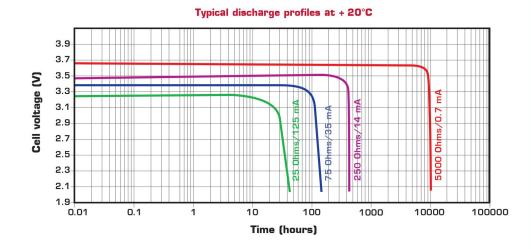
### **S**torage

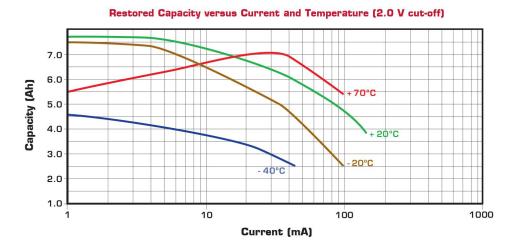
 The storage area should be clean, cool (preferably not exceeding +30°C), dry and ventilated.

#### Warning

- Fire, explosion and severe 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).







# RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.