Primary lithium batteries

LS & LSC 9 V

Primary lithium-thionyl chloride (Li-SOCl₂) High energy density Battery pack

A prismatic battery pack for a wide range of applications requesting low base currents combined with superimposed pulses. Two versions are available, depending on the envisioned temperature range. The LSC 9 V version yields superior voltage readings and operating life in cool environments (i.e. indoor applications with occasional T excursions up to +70°C). The LS 9 V version yields good voltage readings in a wider T range (-60°C to +85°C).



- High voltage, stable during most of the application's lifetime
- Wide operating temperature range
- Low self-discharge rate (less than 1 % per year of storage at +20°C)
- Easy integration into compact systems

Key features

- Pack assembled from three
 ½ AA-sized (and UL-recognized)
 cells connected in series
- Component cells with stainless steel container and hermetic glass-to-metal sealing
- Plastic sleeve for battery housing
- Miniature snap-on terminals
- Non-flammable electrolyte
- Non-restricted for transport

Main applications

- Memory back-up
- Alarm and security devices
- Smoke detectors
- Alarm equipment
- Industrial electronics
- Medical equipment

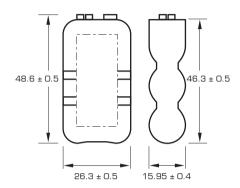




Pack co	nstruction	3 LS 14250 in series	3 LS 14250C in series
Pack designat	ion	LS 9 V	LSC 9 V
Part number		04699G	04700H
Electrical o	characteristics		
(typical values	relative to cells stored for one year or less at +	30°C max.)	
	OV cut-off and for a given discharge current. restored by the cell varies according to current o	1.20 Ah (1.0 mA) <i>Irain</i> ,	1.20 Ah (1.0 mA)
Open circuit v	oltage (at +20°C)	11.0 V	11.0 V
Nominal volta	ge (at + 20°C and 1.5 mA)	10.8 V	10.8 V
(O.1 second pundischarged 3.0 V. The re temperature,	sy: Typically up to oulses, drained every 2 mn at +20°C from cells with 10 μA base current, yield voltage read adings may vary according to the pulse characte and the cell's previous history. Fitting the cell wit nmended in severe conditions. Consult Saft)	eristics, the	50 mA
	rrent permitting 50 % of the nominal capacity. nts possible, consult Saft)	35 mA	15 mA
Storage	(recommended) (for more severe conditions, consult Saft)	+ 30°C (+ 86°F) max	+30°C (+86°F) max
Operating temperature range (Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)			- 60°C/+ 70°C (- 76°F/+ 158°F)
Typical weight		29 g (1 oz)	29 g (1 oz)



LS & LSC 9 V battery pack





Dimensions in mm.

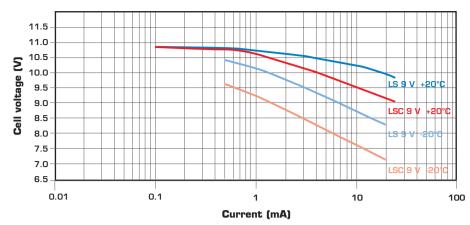
Storage

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

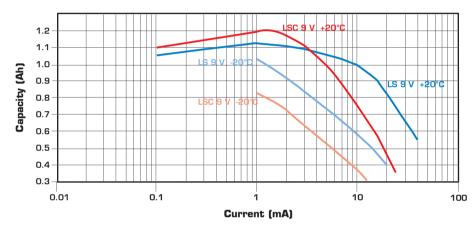
Warning

- 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.

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



Restored Capacity versus Current and Temperature (6.0 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 No 31048-2. Published by the Communications Department.

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