"De officiele Saft dealer in Nederland"

Primary lithium battery

LSH 20 HTS 3.6 V Primary lithium-thionyl chloride (Li-SOCl₂) High power, high temperature, super robust D-size spiral cell

ell size references



R20

Benefits

- High drain/high pulses capable
- Superior voltage response
- Ability to perform reliably in demanding temperature environments (-60 °C to +110 °C) with severe vibration/shock constraints
- High and stable operating voltage
- Superior drain capability
- Low self-discharge rate
 (less than 3 % after 1 year of storage at + 20°C)

Key features

- Stainless steel container
- Hermetic glass-to-metal sealing
- Built-in safety vent
- Non-flammable electrolyte
- Ability to withstand
 - axial vibration 20 GRMS 2-100 Hz
 - radial vibration 30 GRMS 2-100 Hz
 - sine 30 G peak 30 to 2000 Hz
 - random 20 GRMS 30 to 1000 Hz
- Restricted for transport (Class 9)

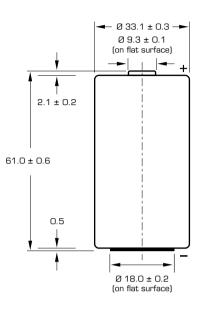
Main applications

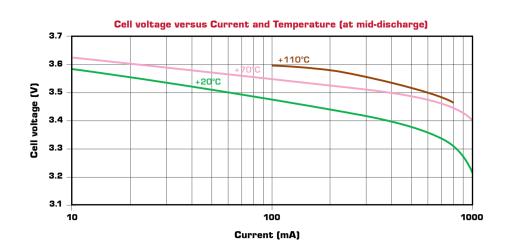
- Oil drilling and all downhole high temperature environments
- Measure While Drilling (MWD)
- Oil and gas well monitoring
- Military (ejection seat beacons, ...)
- Space vehiclesLaunchers

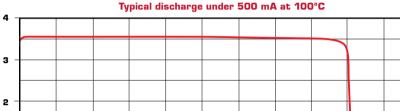
Cell size refere	ences	R20 – D
Electrical charact	eristics	
(typical values relative to cells stored for one year or less at + 30°C max.) Nominal capacity 2.0 V cut-off. The capacity restored by the cell varies according to current drain, temperature and cut-off)		9.3 Ah
Open circuit voltage	e (at + 20°C)	3.67 V
Nominal voltage (under 3 mA at 110	°C)	3.6 V
Nominal energy (at +110°C)		33.48 Wh
(The voltage readin the temperature, ar	pically up to 4000 mA. gs may vary according to the pulse characteristics, nd the cell's previous history. Fitting the cell with a ecommended in severe conditions. Consult Saft)	
Maximum recommended continuous current (at +110°C, to maintain cell heating within safe limits. Battery packs may imply lower level of maximum current and may request specific thermal protection. Consult Sa ft)		1000 mA
Storage	(recommended) (for more severe conditions, consult Sa ft)	+ 30°C (+ 86°F) max
Operating temperature range (Excursions up to +120°C, with some swelling, consult Sa ft)		- 60°C/ +110°C (-76°F/ +230°F)
Physical characte	ristics	
Diameter (max)		33.4 mm (1.32 in)
Height (max)		61.6 mm (2.42 in)
Typical weight		100 g (3.5 oz)
Li metal content		approx. 4.0 g
Custom battery pac	ks available on request.	



LSH 20 HTS







10

Time (hours)

8

12

16

18

14

22

10

20

Overall dimensions in mm

cool (preferably not exceeding + 30°C), dry and ventilated.

• Do not recharge, short circuit,

125°C (257°F), incinerate,

or expose contents to water.

Cell voltage (V)

1

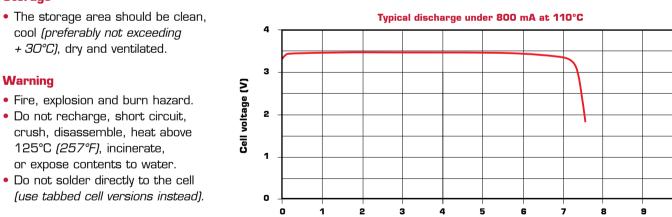
0

n

2

Δ

6



Time (hours)

Saft

Storage

Warning

Specialty Battery Group

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www.saftbatteries.com

Doc. Nº 31057-2-1008

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