

Primary Lithium Selector Guide



Saft, a world renowned leader in portable and advanced batteries and power systems, is a member of Alcatel Alsthom, which ranks among the top 40 on Fortune's list of the world's major corporations.

Saft has become a trusted partner of leading OEMs and assembly houses worldwide by providing global design, manufacturing and services through a network of over 25 subsidiaries in Europe, America and Asia.

Saft provides you with:

- knowledgeable technical support
- prototypes and custom design assemblies
- competitive pricing
- short lead times for low inventory costs

- less than 48-hour turnaround for stock items
- extensive nationwide distribution network
- international network of subsidiaries

Saft has pioneered the development of primary Lithium batteries, which offer a unique combination of performance characteristics.

- high energy density, ideal for compact and light weight design
- long operating life, often lasting for the duration of the equipment
- different cell designs for low, medium and high rates as well as high capacity applications
- low self discharge rate, leading to a long shelf life
- wide operating temperature range, making year-round installations possible in any climatic zone
- high operating voltage – almost twice that of conventional batteries

- standard hermetic sealing to ensure the safety of devices in which batteries are used



Since 1974, Saft's primary Lithium cells have provided highly cost-effective solutions (often the only feasible power solution) in a wide range of civil and military applications.

- memory and real time clock back up
- utility meters
- security systems and alarms
- GPS, tracking, and ID devices
- scientific instrumentation
- diving, marine and oceanography
- oil exploration
- radio communications
- wireless communications
- portable medical devices
- night vision equipment
- surveillance equipment
- sonobuoys, torpedoes
- beacons and transponders



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PRIMARY LITHIUM CELLS

Saft type	Size	Open circuit voltage	Nominal capacity	Maximum constant current	Operating temperature	Max. Dimensions for sleeved cells		Approx weight (g)
		(V)	(Ah)	Current (mA)	(°F)	Diameter (In)	Height (In)	
Lithium Thionyl Chloride								
LS14250	1/2AA	3.67	1.00	40	-67/+186	.57	0.97	7.5
LS14250C	1/2AA	3.67	1.25	12	-67/+186	.57	0.97	7.5
LS14500	AA	3.67	2.25	120	-67/+186	.57	1.98	15.0
LS14500C	AA	3.67	2.75	25	-67/+186	.57	1.98	15.0
LS26500	C	3.67	7.30	170	-67/+186	1.03	1.96	50.0
LSH14	C	3.67	5.20	800	-67/+186	1.03	1.97	55.0
LS33600	D	3.67	16.5	250	-67/+186	1.32	2.41	90.0
LS33600C	D	3.67	18.5	80	-67/+186	1.32	2.41	90.0
LSH20	D	3.67	13.0	1800	-67/+186	1.32	2.41	100.0

Lithium Sulfur Dioxide								
Saft type	Size	Open circuit voltage	Nominal capacity	Maximum constant current	Operating temperature	Diameter (In)	Height (In)	Approx weight (g)
LO38SHX	5/4A	3.0	1.50	1000	-76/+160	.64	2.25	21.0
LO34SX	1/3C	3.0	0.86	250	-76/+160	1.01	0.80	16.0
LO35SX	2/3C	3.0	2.00	2000	-76/+160	1.01	1.41	30.0
LO29SHX	C	3.0	3.50	2000	-76/+160	1.01	1.98	40.0
LO43SHX	5/4C	3.0	4.80	2000	-76/+160	1.01	2.34	40.0
LO40SHX	2/3 THIN D	3.0	3.50	2000	-76/+160	1.13	1.63	40.0
LO30SHX	THIN D	3.0	5.75	3000	-76/+160	1.15	2.36	63.0
LO26SX	D	3.0	7.50	3000	-76/+160	1.33	2.33	85.0
LO26SHX	D	3.0	7.00	4000	-76/+160	1.33	2.33	85.0
LO25SX	FAT D	3.0	8.00	3000	-76/+160	1.52	1.98	96.0
LO39SHX	F	3.0	11.00	8000	-76/+160	1.21	3.91	125.0
LO52SX	DD	3.0	16.00	6000	-76/+160	1.33	4.55	170.0

Saft Military Battery Pack	Saft Cell Composition	Open circuit voltage	Rated capacity	Maximum constant current	Operating temperature	Max. Dimensions for packaged cells			Approx weight (g)
		(V)	(Ah)	Current (mA)	(°F)	Length (In)	Height (In)	Width (In)	
Lithium Sulfur Dioxide Packs									
BA5112/U	(4) LO35SX	12.00	2.00	-	-76/+160	3.06	2.25	1.54	183
BA5588/U	(5) LO40SHX	15.00	3.50	-	-76/+160	3.50	1.23	3.78	295
BA5800/U	(2) LO26SX	6.00	7.50	-	-76/+160	5.06	1.40	-	220
BA5600/U	(3) LO26SX	9.00	7.50	-	-76/+160	7.32	1.55	-	363
BA5847B/U	(2) LO26SX	6.00	7.50	-	-76/+160	3.75	1.50	2.55	240
BA5598/U	(5) LO25SX	15.00	8.00	-	-76/+160	3.62	2.12	4.75	681
BA5590/U	(5) LO26SX-(2)	15.0/30.0	15.0/7.5	-	-76/+160	5.00	2.45	4.40	1021
BA5599/U	(3) LO26SX	9.00	7.50	-	-76/+160	6.00	1.50	2.50	450
BA5567/U	LO34SX	3.00	0.86	-	-76/+160	1.00	0.72	-	20

These standard military batteries are also equipped with a thermal cut off (TCO) and diode to protect against accidental charging of the batteries (except BA 5567/U). Most of the batteries available with a complete discharge device (CDD).

All primary Lithium batteries:

- Nominal Capacity & Voltage @ 68°F/2.0V • Open Circuit Voltage 68°F • Features: glass to metal seal standard on all cells • LS cells bobbin construction, LSH and LO cells spiral construction • All spiral cells have pressure vent mechanism • Avoid excessive heating of the cells • Higher intermittent current possible

Note: Specifications are subject to modification without notice for further improvement.

Warning: Do not incinerate, recharge, dismantle, short-circuit or solder (directly on) the cells.

S A F T

Lithium & Military Battery Division
<http://www.saft.fr/plithium>

Saft America, Inc. • 313 Crescent Street • Valdese, NC 28690 - USA
 Phone: (800) 704-7238 • (828) 874-4111 • Fax: (828) 879-3981

Regional Sales Offices

West: (310) 393-4147 • Central: (651) 554-8227 • East: (201) 387-0900