

## Lithium-sulfur dioxide (Li-SO<sub>2</sub>) - LO/G cell ranges

Non rechargeable battery



[Technical characteristics](#)

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The Saft LO/G cylindrical primary lithium cells are based on Lithium-Sulphur dioxide (Li-SO<sub>2</sub>) chemistry and feature very high surface area spiral electrodes for maximum current pulse capability. They are designed for applications featuring continuous currents in the 0.1-5 A range, with superimposed pulses as high as 20 A.

The LO cell models are manufactured in the USA and the G cell models are manufactured in the UK.

### Construction features

spiral electrodes  
 nickel-plated steel containers  
 hermetic and sturdy glass-to-metal sealing  
 built-in safety vent  
 available as individual batteries (size ½ AA to 'Fat' DD; with or without tabs) or multi-cell battery packs

### Main applications

military radiocommunication  
 sonobuoys and other underwater applications  
 emergency location transmitters beacon (ELTs, EPIRBs)  
 professional electronics  
 cardiac defibrillators

### Benefits

high operating voltage, stable during most of the application lifetime  
 wide operating temperature range (-60°C to +70°C)  
 good resistance to passivation  
 non-flammable (but corrosive) pressurized electrolyte, quickly expelled in case of venting  
 less than 3% capacity loss during storage at ambient temperature before use  
 released capacity independent from cell orientation  
 unrivalled pulse capability  
 compliance with the European directive RoHS  
 excellent time-tested (25 years of mass production experience)  
 safety records in many demanding military applications

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### Technical characteristics

3.0 V open circuit voltage  
 Operating voltage (depending on conditions) typically above 2.5 V  
 Nominal capacities spanning the 0.45 - 3.4 Ah range  
 Most cell models are Underwriters Laboratories recognized (File number MH 15076)  
 Compliance with numerous military standards

	<b>G 04/3</b>	<b>G 06/2</b>	<b>G 32/3</b>	<b>G 36/2</b>	<b>LO 34 SX</b>
Size	½ AA	AA	2/3 A	"Long" A	1/3 C
Open Circuit Voltage	3 V	3 V	3 V	3 V	3 V
Nominal Voltage	2.8 V	2.8 V	2.8 V	2.8 V	2.9 V

Nominal capacity (drain)	0.45 Ah (50 mA)	0.95 Ah (80 mA)	0.8 Ah (80 mA)	1.7 Ah (80 mA)	0.86 Ah (80 mA)
Max. recom. Cont. Current	0.25 A	0.5 A	0.75 A	1.5 A	1.0 A
Operating temperature range	-60/+70°C*	-60/+70°C*	-60/+70°C*	-60/+70°C*	-60/+70°C*
Outside diameter max	14.2 mm	14.2 mm	16.3 mm	16.3 mm	25.9 mm
Length max	27.9 mm	50.3 mm	34.5 mm	57.7 mm	20.3 mm
Weight	8 g	15 g	12 g	18 g	18 g
Transport	Non restricted	Non restricted	Non restricted	Non restricted	Non restricted

	<b>LO 35 SX</b>	<b>G 52/3</b>	<b>LO 29 SHX</b>	<b>G 54/3</b>	<b>LO 43 SHX</b>
Size	2/3 C	C	C	5/4 C	5/4 C
Open Circuit Voltage	3 V	3 V	3 V	3 V	3 V
Nominal Voltage	2.8 V	2.8 V	2.8 V	2.8 V	2.8 V
Nominal capacity (drain)	2.2 Ah (650 mA)	3.2 Ah (1.0 A)	3.75 Ah (0.25 A)	5.0 Ah (0.2 A)	5.0 Ah (0.2 A)
Max. recom. Cont. Current	2.0 A	2.5 A	2.5 A	2.5 A	2.5 A
Operating temperature range	-60/+70°C*	-60/+70°C*	-60/+70°C*	-60/+70°C*	-60/+70°C*
Outside diameter max	25.9 mm	25.6 mm	25.6 mm	25.6 mm	26.0 mm
Length max	35.9 mm	49.5 mm	50.4 mm	60.2 mm	59.2 mm
Weight	30 g	47 g	40 g	58 g	53 g
Transport	Non restricted	Class 9	Class 9	Class 9	Class 9

	<b>LO 40 SX</b>	<b>LO 30 SHX</b>	<b>G 26</b>	<b>LO 26 SX</b>	<b>LO 26 SHX</b>
Size	2/3 "Thin" D	"Thin" D	D	D	D
Open Circuit Voltage	3 V	3 V	3.0 V	3.0 V	3.0 V
Nominal Voltage	2.8 V	2.8 V	2.8 V	2.8 V	2.8 V
Nominal capacity (drain)	3.5 Ah (0.12 A)	5.75 Ah (0.2 A)	7.75 Ah (0.25 A)	7.75 Ah (0.25 A)	7.5 Ah (0.25 A)
Max. recom. Cont. Current	2.0 A	3.0 A	2.5 A	2.5 A	4.0 A
Operating temperature range	-60/+70°C*	-60/+70°C*	-60/+70°C*	-60/+70°C*	-60/+70°C*
Outside diameter max	28.95 mm	29.1 mm	34.5 mm	34.2 mm	34.2 mm
Length max	42.29 mm	59.9 mm	59.8 mm	59.3 mm	59.3 mm
Weight	40 g	63 g	85 g	85 g	85 g
Transport	Class 9	Class 9	Class 9	Class 9	Class 9

	<b>LO 26 SXC</b>	<b>LO 25 SX</b>	<b>LO 39 SHX</b>	<b>G 22/6</b>	<b>G 62/1</b>
Size	D	"Fat" D	F	DD	"Long Fat DD"
Open Circuit Voltage	3.0 V	3 V	3 V	3 V	3 V
Nominal Voltage	2.8 V	2.8 V	2.8 V	2.8 V	2.8 V
Nominal capacity (drain)	9.2 Ah (0.25 A)	8.0 Ah (0.27 A)	11.5 Ah (1 A)	16.5 Ah (0.5 A)	34.0 Ah (1.0 A)
Max. recom. Cont. Current	2.5 A	2.5 A	3.0 A	3.0 A	3.0 A
Operating temperature range	-60/+70°C*	-60/+70°C*	-60/+70°C*	-60/+70°C*	-60/+70°C *
Outside diameter max	34.2 mm	39.5 mm	31.9 mm	33.3 mm	41.7 mm
Length max	59.3 mm	50.3 mm	100.3 mm	120.6 mm	141 mm
Weight	85 g	96 g	125 g	175 g	300 g
Transport	Class 9	Class 9	Class 9	Class 9	Class 9

\* cells leakproof up to 85°C.

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