

Li-MnO₂ product range

High power and high energy with no passivation

Lithium manganese dioxide (Li-MnO₂) batteries from Saft

- Operating voltage: 3V
- Operating temperature: -40°C to +70°C
- Spiral construction
- Non-corrosive electrolyte
- Cells non-pressurised at room temperature
- High pulse capability
- Minimal voltage delay
- Competitive capacity at high current and low temperatures [-40°C]
- Low self-discharge compatible with long storage duration and extended operating life

Spiral cells designed specifically for applications featuring continuous currents in the 0.1-5 A range, with superimposed pulses as high as 5 A. Excellent resistance to passivation, even after long-term storage in uncontrolled temperature environments.

	POWER						HIGH POWER			
	M51	M52	M 56	M 19	M 20	M 62	M 52 HR	M 19 HR	M 20 HR	M 24 HR
Cell size	2/3 C	C	5/4 C	Short D	D	DD	C	Short D	D	Big DD
Cell construction	Spiral	Spiral	Spiral	Spiral	Spiral	Spiral	Spiral	Spiral	Spiral	Spiral
Nominal voltage	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V
Nominal capacity	3.2 Ah	5.6 Ah	6.7 Ah	10.3 Ah	12.6 Ah	33.0 Ah	4.8 Ah	10.3 Ah	11.5 Ah	20.0 Ah
Max. continuous current	1.0 A	2.0 A	2.5 A	3.0 A	3.5 A	6.0 A	2.0 A	4.0 A	4.0 A	6.0 A
Max. pulse discharge rate	2.5 A	4.0 A	6.0 A	7.5 A	8.0 A	12.0 A	5.0 A	10.0 A	10.0 A	12.0 A
Max. outside diameter	26.2 mm	26.2 mm	26.2 mm	33.5 mm	34.2 mm	42.5 mm	26.2 mm	33.5 mm	34.2 mm	33.5 mm
Max. height	35.3 mm	51.5 mm	61.5 mm	58.5 mm	61.5 mm	133.0 mm	51.5 mm	58.5 mm	61.5 mm	110.5 mm
Typical weight	38 g	58 g	70 g	105 g	117 g	355 g	59 g	107 g	117 g	201 g
Operating temperature range	-40 / +70°C	-40 / +70°C	-40 / +70°C	-40 / +70°C	-40 / +70°C	-40 / +70°C	-40 / +70°C	-40 / +70°C	-40 / +70°C	-40 / +70°C

Typical values relative to cells stored for one year or less at +30°C max ; Performances vary according to discharge characteristics (current, duration, frequency), temperature conditions, storage conditions prior to usage and applications acceptable minimum voltage.



	POWER				ATEX	
	LM 17130	LM 17500	LM 26500	LM 33600	M 52 Ex	M 20 Ex
Cell size	1/3 A	A	C	D	C	D
Cell construction	Spiral	Spiral	Spiral	Spiral	Spiral	Spiral
Nominal voltage	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V	3.0 V
Nominal capacity	0.5 Ah	3.0 Ah	7.0 Ah	13.0 Ah	5.6 Ah	12.4 Ah
Max. continuous current	0.3 A	1.5 A	2.0 A	4.0 A	2.0 A	3.5 A
Max. pulse discharge rate	0.4 A	2.0 A	4.0 A	8.0 A	4.0 A	8.0 A
Max. outside diameter	16.7 mm	17.5 mm	26.2 mm	34.2 mm	26.2 mm	34.2 mm
Max. height	16.33 mm	51.5 mm	51.5 mm	61.5 mm	51.5 mm	61.5 mm
Typical weight	8 g	28 g	60 g	114 g	58 g	115 g
Operating temperature range	-40 / +70°C	-40 / +70°C	-40 / +70°C	-40 / +70°C	-40 / +70°C	-40 / +70°C



The EX-range provides a high energy density and are certified according to ATEX/IECEx by an independent certification body. The cells are fully compliant with the IEC 60079-11 standard (Explosive atmospheres – Part 11: Equipment protection by intrinsic safety "I").



High capacity at high current and low temperatures
Minimal voltage delay
Intrinsically safe designs for high power applications