LSP 17500-20F

Hybrid Primary Li-SOCl₂ battery

3.6 V A-size bobbin cell fitted with a 20F LIC

Saft's LSP 17500-20F battery is ideally suited for long life applications (typically from 5 to 10 years), featuring low base currents and periodic high current pulses up to 1.5 A.

Benefits

- High pulse current capability
- High voltage response, stable even after long dormant periods
- Low self-discharge compatible with long operating life (less than 1.5% after 1 year of storage at + 20 °C)
- Wide operating temperature range (-20°C to +70°C)
- Superior resistance to corrosion

Key features

- Battery made of Saft's LS 17500 Asize bobbin Li-SOCl₂ cell fitted with a 20 F LIC (Lithium Ion Capacitor) in parallel connection for pulse support
- Restricted for transport (class 9)
- Made in EU

Designed to meet all major quality, safety and environment standards

- Safety: UL 1642 (File MH 12609) IEC 60086-4 (for the Li-SOCl₂ cell)
- Transport: UN 3090, 3091 & 3499 for components (assembly under testing)
- Quality: ISO 9001, Saft World Class continuous program
- Environment: ISO 14001, RoHS and REACH compliant

Typical applications

- Smart Metering
- Internet of Things
- Tracking systems
- Environment monitoring



Electrical characteristics	
(Typical values related to batteries stored up to one year a	t + 30 °C max)
Typical capacity (at 3 mA, +20 °C, 2.0 V cut-off) (1)	3.6 Ah
Open circuit voltage	3.67 V
Nominal voltage (at 0.5 mA, + 20 °C)	3.6 V
Nominal energy	12.96 Wh
Typical pulse capability (2)	At 20°C 1 A / 3 s pulses

Operating conditions					
Operating temperature r	ange ⁽³⁾	-20 °C / +70 °C			
Storage temperatures	Recommended (4)	+30 °C max.			

Physical characteristics		
Length (max)	Design example.	28 mm
Width (max)	For other configurations,	17.5 mm
Height (max)	please consult Saft	52.5 mm
Terminals (example)	Flying leads	with optional connectors
Typical battery weight		28 g
Li metal content		approx. 1 g
References		
Saft part No.		600885

[1] Dependent upon current drain, temperature, cut-off and battery orientation.

- ^[2] Typical pulse capability to 2.8V at + 20 °C from fresh battery. The voltage readings may vary according to:
 - the pulse characteristics such as intensity, duration and frequency
 - the environment's temperature
 - the battery's previous history.

Consult Saft for any other pulse conditions.

- (3) Operation above or under ambient temperature may lead to reduced capacity and lower voltage readings. Consult Saft.
- [4] For more severe conditions, consult Saft.

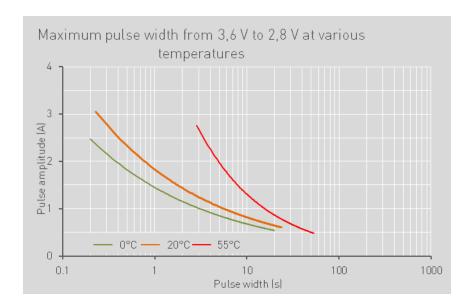


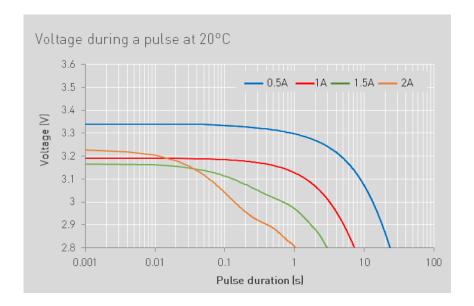
Storage

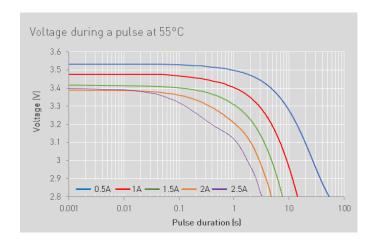
■ The storage area should be clean, cool (preferably not exceeding + 30 °C), dry and ventilated

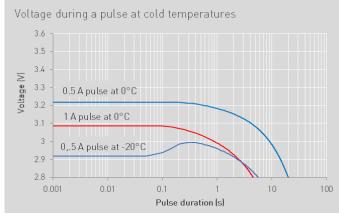
Warning

- 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 (use tabbed cell versions instead)











Saft

26, quai Charles Pasqua 92300 Levallois-Perret France

Tel.: +33 1 49 93 19 18 Fax: +33 1 49 93 19 64 www.saftbatteries.com

Saft America, Inc

313 Crescent Street Valdese, NC 28690 USA

Tel.: +1 (828) 874 41 11 Fax: +1 (828) 879 39 81 www.saftbatteries.com Doc № 31187-2-0220
Edition: February 2020
Information in this document is subject to change without notice and becomes contractual only after written confirmation by Saft.
Published by the Communication Department
Photo credit: Saft