LSP 33600-20F

Hybrid Primary Li-SOCl₂ battery

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

Saft's LSP 33600-20F 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% capacity loss per year after 1 year of stabilization at + 20 °C)
- Wide operating temperature range (-20°C to +70°C)

Key features

- Battery made of Saft's LS 33600 Dsize 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 MH12609) and IEC 60086-4 for the LS 33600 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

Typical applications

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



Electrical characteristics	
(Typical values related to batteries stored up to one year at	+ 30 °C max)
Typical capacity (at 5 mA, +20 °C, 2.0 V cut-off) [1]	17 Ah
Open circuit voltage	3.67 V
Nominal voltage (at 0.7 mA, + 20 °C)	3.6 V
Nominal energy	61.2 Wh
Typical pulse capability (2)	At 20°C pulse 1 A / 3 s

Operating conditions				
Operating temperature ra	-20 °C / +70 °C			
Storage temperatures	Recomm	nended ^[4]		+30 °C max.
Physical characteristics				
Length (max)				44.0 mm

Length (max)	- Design example. For other - configurations, please consult Saft	44.0 mm	
Width (max)		33.5 mm	
Height (max)		62.5 mm	
Terminals	Flying leads with optional connectors		
Typical battery weight		92 g	
Li metal content		approx. 4.5 g	
References			
Saft part No.		60090U	

[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.

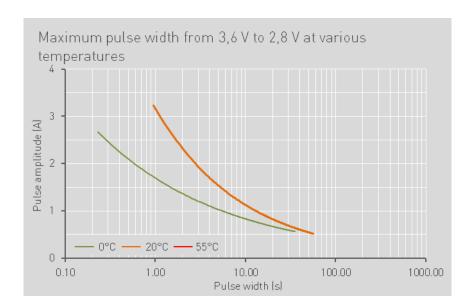


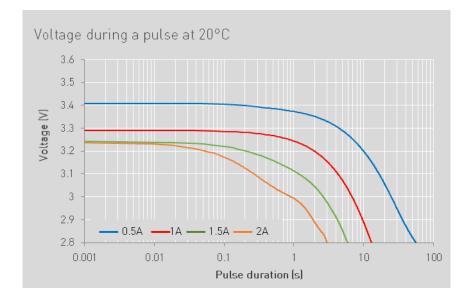
Storage

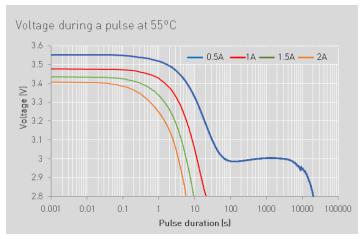
■ The storage area should be clean, cool (preferably not exceeding + 30 °C), dry and ventilated

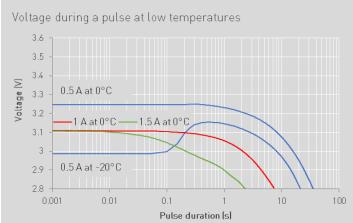
Warning

- 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 N° 21189-2-0220
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