

VL 34570 xlr

Rechargeable Li-ion cell

3.65 V high energy Li-ion cell with robust performance and cycle life

Saft's VL 34570 xlr cell is ideally suited for applications requiring high energy, long operating life under cycling conditions and offers excellent performance in temperature environments from -30°C to +60°C.

Benefits

- Excellent operating lifetime in calendar and cycling with a very stable internal resistance
- Long shelf life with extremely low capacity loss under storage
- Easy connection and assembly into batteries
- Smaller environmental footprint than other technologies

Key features

- High energy density (361 Wh/l, and 151 Wh/kg)
- Cycle life (> 600 cycles at 100% DoD at C/2 discharge, C/2 charge)
- Nickel plated steel casing
- Hermetically sealed
- Operates in any orientation
- Maintenance free
- No memory effect
- Manufactured in EU

Designed to meet all major quality, safety and environmental standards

- Safety: UL 1642 and IEC62133 Ed. 2
- Transport: UN 3480, UN 3481
- Quality: ISO 9001, Saft World Class
- Environment: ISO 14001, RoHS and REACH compliant

Typical applications

- Industrial equipment
- Medical devices
- Tracking
- Oil & Gas applications
- Internet of Things
- Wireless Sensor Networks



Electrical characteristics

Typical capacity (at C/5 rate, +25°C, 2.5V cut-off) ⁽¹⁾	5.4 Ah	
Nominal voltage	3.65 V	
Nominal energy	19.7 Wh	
Recommended maximum discharge current ⁽²⁾	Continuous	11 A (~2C rate)
	Pulse	21 A (~4C rate)

Physical characteristics (sleeved cell)

Diameter	34.20 mm
Height	59.43 mm
Typical weight	~130 g
Volume	0.054 l

Operating conditions

Typical cut-off voltage	2.5 V	
Charging method	Constant current/Constant voltage	
Charging voltage	4.2 ± 0.05 V	
Maximum continuous charge current ⁽³⁾	5.4 A (~1C rate)	
Operating temperatures ⁽³⁾	Charge	-30°C to +60°C
	Discharge	-30°C to +60°C
Storage & transportation temperatures ⁽³⁾	Recommended	+10°C to +30°C
	Allowable	-30°C to +60°C

⁽¹⁾ Can vary depending on temperature and discharge rate

⁽²⁾ Can vary depending on temperatures. Consult Saft

⁽³⁾ For optimised charging below 0°C consult Saft

Saft

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