

MP 176065 xlr

Rechargeable Li-ion cell

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

Saft's MP 176065 xlr cell is ideally suited for applications requiring high energy, long operating life under cycling conditions and offers excellent performance in temperature environments from -35°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 (364 Wh/l, and 165 Wh/kg)
- Cycle life more than 1800 cycles at 100% DoD at C/2 discharge, C/ charge
- Stainless steel casing
- Hermetically sealed
- 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
- Medical: ISO 13485
- 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 devices
- Wireless Sensor Networks
- Military equipment



Electrical characteristics		
Typical capacity (at C/5 rate, +25°C, 2.5V cut-off) (1)		6.8 Ah
Nominal voltage		3.65 V
Nominal energy		24.8 Wh
Recommended maximum discharge current [2]	Continuous	14.0 A (~2C rate)
	Pulses	27.0 A (~4C rate)

Physical characteristics (sleeved cell)	
Thickness (3)	19.6 mm
Width	60.1 mm
Height (including terminals)	65.2 mm
Typical weight	~150 g
Volume (including terminals)	J 880.0
IEC cell designation	INP20/61/66
Operating conditions	

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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 (4)		6.8 A (1C rate)
Operating temperatures [4]	Charge	-30°C to +60°C
	Discharge	-35°C to +60°C
Storage & transportation temperatures [4]	Recommended	+10°C to +30°C
	Allowable	-40°C to +60°C
1) Can you depending on temperature and discharge rate		

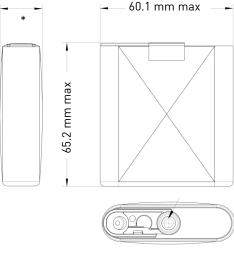
^[1] Can vary depending on temperature and discharge rate.



⁽²⁾ Can vary depending on temperatures. Consult Saft.

^[3] At beginning of life, 100% State-of-Charge. Can increase with temperature during battery lifetime.

^[4] For optimised operation below 0°C consult Saft.



Cell dimensions*

During the lifetime of the cell, in different applications some dimensions may alter slightly. Please consult with Saft for further details.

Battery assembly

Individual lithium-ion cells need to be mechanically and electrically integrated into battery systems to operate properly. The battery system includes electronic devices for performance, thermal and safety management specific to each application. Please contact Saft with your specific application requirements.

Battery-level features

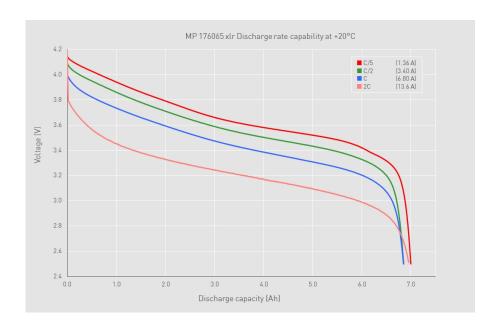
- Saft provides complete battery system designs
- Integrating several levels of redundant safety features to prevent abuse conditions such as over-charge, overdischarge, and short circuits
- Incorporating electronics for performance and efficiency in charging, floating, discharging as well as cell balancing and temperature monitoring
- Battery protection controller at system level for larger batteries
- Communication for State-of-Charge and State-of-Health

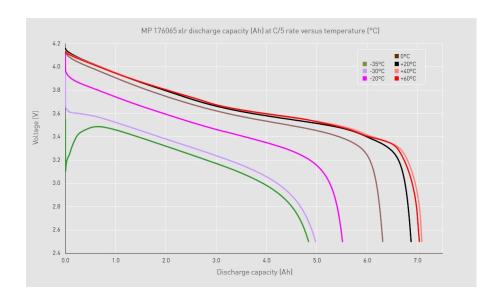
Storage

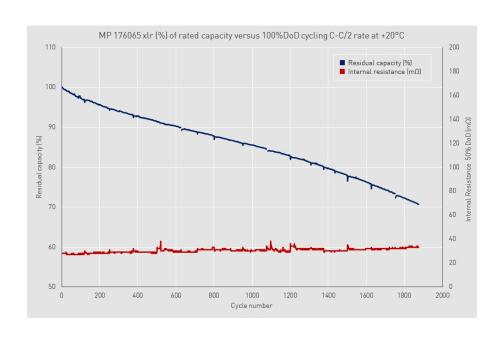
■ The storage area should be clean, cool (preferably not exceeding +30°C), dry and ventilated

Warning

- Do not crush, short-circuit, incinerate, dismantle, immerse in any liquid, heat above +60°C
- Observe charging conditions
- Refer to our Li-ion Battery User manual for further information on the use and handling of Saft products.









Saft

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