MP 176065 xtd Rechargeable Li-ion cell

3.65 V high energy Li-ion cell with extended life and temperatures

Saft's MP 176065 xtd cell is ideally suited for applications requiring high energy and long operating life, either in calendar, cycling or floating conditions, with excellent performances in unregulated temperature environments from –40°C to +85°C.

Benefits

- Excellent operating life in calendar, cycling and floating conditions
- Unrivalled operating temperature range from -40°C to +85°C
- High level of safety, compatible potentially explosive atmospheres
- Long shelf life with extremely low capacity loss under storage
- Easy integration into batteries
- Smaller environmental footprint than other technologies

Key features

- High energy density (264 Wh/l, and 150 Wh/kg)
- Aluminium 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, ISO 13485Saft World Class program
- Environment: ISO 14001, RoHS and REACH compliant

Typical applications

- Backup for industrial equipment
- Medical devices
- Tracking
- Oil & Gas applications
- Internet of Things, Wireless Sensor Networks
- Lighting & signalling
- Automotive



Electrical characteristics		
Typical capacity (at C/5 rate, +25°C, 2.5V cut-off)		5.6 Ah
Nominal voltage		3.65 V
Nominal energy		20.4 Wh
Recommended maximum discharge current	Continuous	11 A (~2C rate)
	Pulse	22A (~4C rate)

Physical characteristics (sleeved cell)	
Thickness III	18.65 mm
Width	60.5 mm
Height (including terminals)	68.7 mm
Typical weight	135 g
Volume (including terminals)	0.077 l
IEC cell designation	INP/19/61/69
Saft internal designation	INT 176065 xtd

Care meet acceptation		1111 170000 7110
Operating conditions		
Typical cut-off voltage		2.5 V
Charging method	Constant current/Constant voltage	
Charging voltage		4.2 V
Maximum continuous charge current [w]		5.6 A (~1C rate)
Operating temperatures	Charge	-30°C to +85°C
	Discharge	-40°C to +85°C
Storage & transportation temperatures	Recommended	+15°C to +30°C
	Allowable	-40°C to +85°C

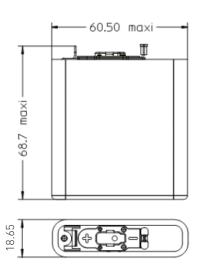
[[]i] Can vary depending on temperature and discharge rate



[[]ii] Can vary depending on temperatures. Consult Saft

[[]iii] At beginning of life, 100% State-of-Charge. May increase with temperature and during battery life.

[[]iv] For optimised charging below 0°C and above 60°C , consult Saft



MP 176065 xtd Discharge rate capability at +25°C 4.4 3.8 8.3.6 9.6 9.7 1.0 2.0 3.0 Capacity (Ah)

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 for your specific applications requirements.

Battery-level features

- Saft provides complete battery system designs
- Incorporating several levels of redundant safety features to prevent abuse conditions such as over-charge, overdischarge, and short circuits
- Incorporating electronics for performance and efficiency:
 - charge/floating/discharge management
 - cell balancing
 - temperature monitoring
- Battery protection controller at system level
 Communication for State-of-Charge an

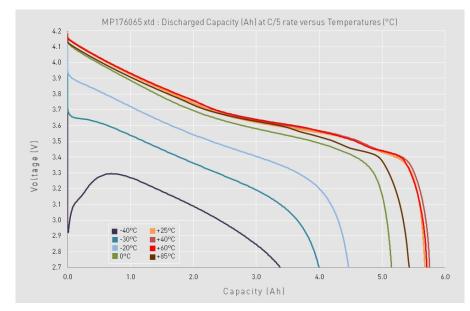
Communication for State-of-Charge and State-of-Health

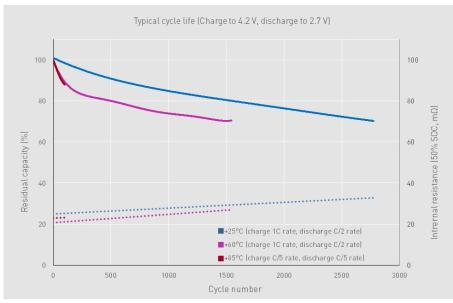
Storage

■ 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 +85°C
- Observe charging conditions







Saft

26, Quai Charles Pasqua, 92300 Levallois Perret -France Tel.: +33 (0)1 49 93 19 18 Fax: +33 (0)1 49 93 19 69 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 №: 31109-2-0218
Edition: February 2018
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
Produced by CE Marketing Department