MP 174565 xtd Rechargeable Li-ion cell

3.65 V high energy Li-ion cell with extra life and operational temperature

Saft's MP 174565 xtd cell is ideally suited for applications requiring high energy and long operating life, either in calendar, cycling or floating conditions, with excellent performance 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
- Long shelf life with extremely low capacity loss under storage
- Easy assembly into various designs and formats of 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 the EU

Designed to meet all major quality, safety and environmental standards

- Safety: UL 1642 and IEC 62133 Ed. 2
- Transport: UN 3480, UN 3481
- Quality: ISO 9001, ISO 13485
 Saft World Class program
- Environment: ISO 14001, RoHS and REACH compliant

Typical applications

- Backup systems for industrial and commercial equipment
- Medical devices
- Tracking
- Industrial applications
- Internet of Things
- Wireless Sensor Networks
- Lighting & signalling



Electrical characteristics

Typical capacity (at C/5 rate, +25°C, 2.5V cut-off) 🗉		4.0 Ah
Nominal voltage		3.65 V
Nominal energy		14.6 Wh
Recommended maximum discharge current 🗉	Continuous	8 A (~2C rate)
	Pulse	16 A (~4C rate)
Physical characteristics (sleeved cell)		
Thickness 📖		18.65 mm
Width		45.3 mm
Height (including terminals)		68.5 mm
Typical weight		97 g
Volume (including terminals)		0.057 l
IEC cell designation		INP19/46/69
Saft internal cell designation		INT 174565 xtd
Saft part number		07946G
Saft model / type reference	MP 174565 xtd	GP30612
Operating conditions		
Typical cut-off voltage		2.5 V
Charging method	Constant current/Constant voltage	
Charging voltage		4.2 V
Maximum continuous charge current [iv]	4 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 the cells' calendar life.

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







Battery assembly

Individual lithium-ion cells need to be mechanically and electrically assembled 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

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

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