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 environment standards

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

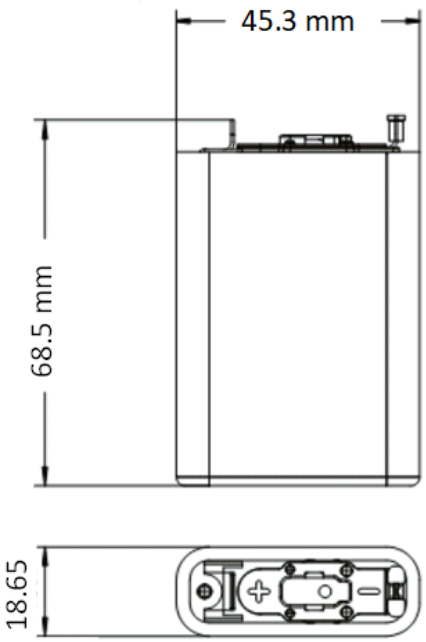
Typical applications

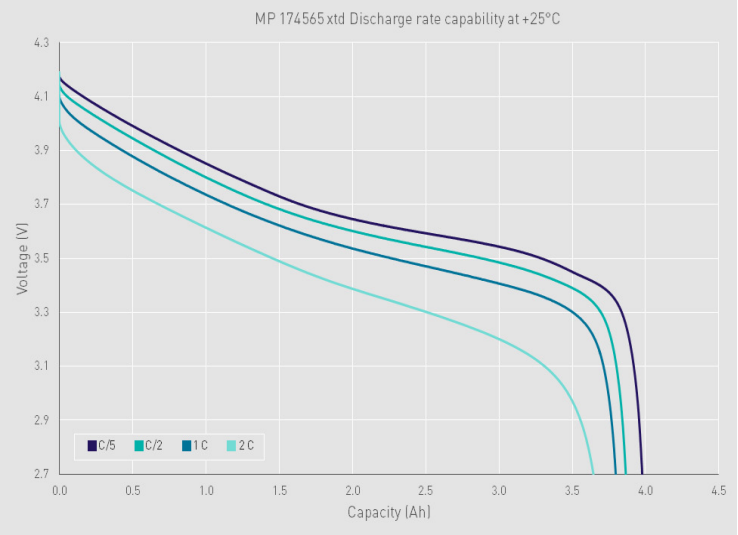
- Backup systems for industrial and commercial equipment
- Medical devices
- Tracking
- Industrial applications
- Internet of Things
- Wireless Sensor Networks
- Lighting & signalling

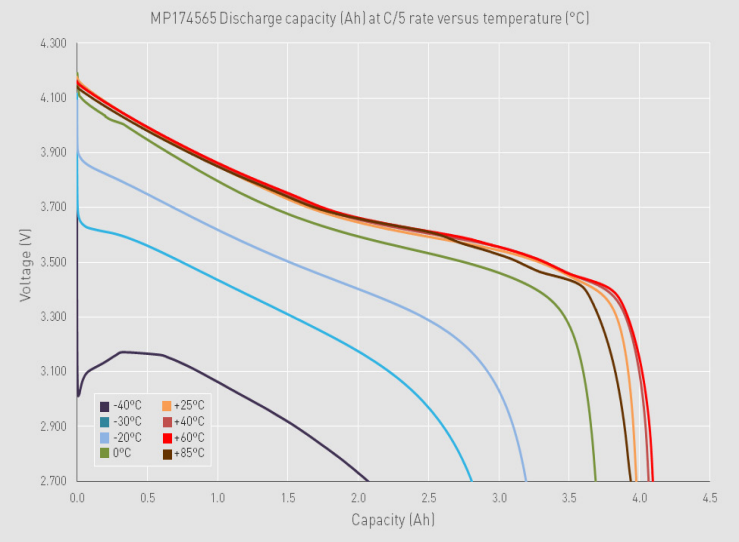
Electrical characteristics		
Typical capacity (at C/5 rate, +25°C, 2.5V cut-off)[1]		4.0 Ah
Nominal voltage		3.65 V
Nominal energy		14.6 Wh
Recommended maximum discharge current[2]		
	Continuous	8 A (~2C rate)
	Pulses	16 A (~4C rate)
Physical characteristics (sleeved cell)		
Thickness[3]		19.6 mm
Width		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		Contstant current/Constant voltage
Charging voltage		4.2 V
Maximum continuous charge current[4]		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

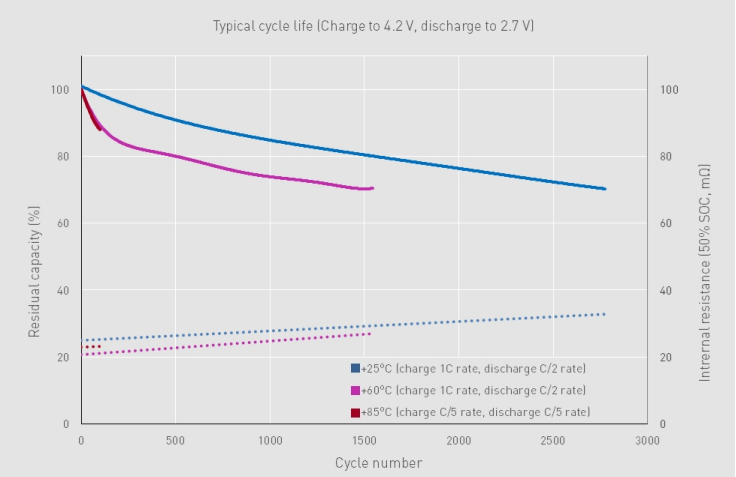
[1] Can vary depending on temperature and discharge rate
[2] Can vary depending on temperatures. Consult Saft
[3] At beginning of life, 100% State-of-Charge. Can increase with temperature and during battery life.
[4] For optimised operation below 0°C and consult Saft

TotalEnergies









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, over-discharge, 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

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