

4s2p MP176065 xlr XLSO

Rechargeable Li-ion battery

14.6V high energy Li-ion battery with high performance and reliability

• High energy density and high reliability
• compact with common 18650 cell
• simple integration; low profile
• long shelf life and recycling
• conformal coating or
• conformal or no lacquer
• operating from -20°C to +60°C



Benefits

- high energy density
• compact with common 18650 cell
• long shelf life and recycling
- no aging during the lifetime more than 0.01% per month

Key features

- high energy density (100 Wh/kg)
- single cell protection (UP protection)
- 18650 cell (Li-ion chemistry)
- PCB thickness
- surface protection (PCB)
- conformal coating
- conformal lacquer
- no lacquer
- Management by BMS

Designed to meet all major quality, safety and environmental standards

- IEC62133, IEC62134, IEC62137
- IEC62680-1, IEC62680-2
- RoHS, WEEE, REACH
- UL1642, UN38.3, IATA DGR
- AUL conditions

Typical applications

- medical
- aerospace
- automotive
- consumer

Technical data

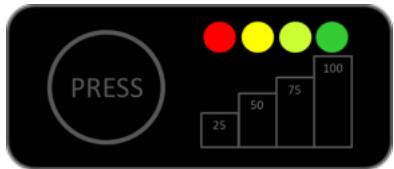
Initial charge by 0.5C rate (0.1 C charging)	100%
Storage time	1 year
Storage temp.	-20 to +60 °C
Temperature range and discharge current	Conformal -20 to +60 °C
Rated capacity (at 20 °C)	Conformal 40.0 Ah
Dimensions (width x height x depth)	155 x 65 x 105 mm
Weight (without cells)	2.5 kg
Protection against short circuit	PCB
Protection against overcharge	PCB
Protection against overdischarge	PCB
Temperature limitation	20 to 60 °C
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Operating conditions

Initial charge, 100% capacity	100%
Charging method	Conformal 0.1C/0.05C/0.01C
Charging voltage	14.8 V ± 0.1 V
Normal cut-off voltage (charge)	14.8 V ± 0.1 V
Operating temperature	Conformal -20 to +60 °C
Storage temperature	Conformal -20 to +60 °C
Short-circuit protection temperature	Conformal -20 to +60 °C
Allowable	20 to 60 °C

The information contained in this document is subject to change without notice.
It is not intended to be binding in any way.
It is the customer's responsibility to evaluate the suitability of the product for
the intended application.

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Independent segment class 1:

- independent segment class 1
according to IEC 60068-2-27
- vibration system tested up to
1000 Hz
- thermal shock test up to 100 °C

Electrolyte Protection Circuit

- Electrolyte protection circuit
with overcharge protection
and overdischarge protection
- short circuit protection
- overtemperature protection
- overvoltage protection, 40 V max
- overcurrent protection, 10 A max
- reverse polarity protection

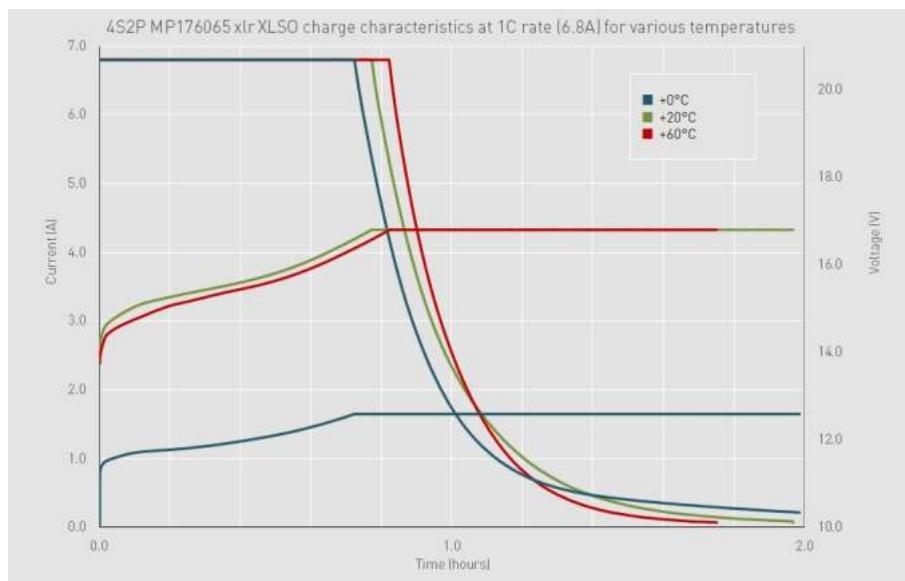
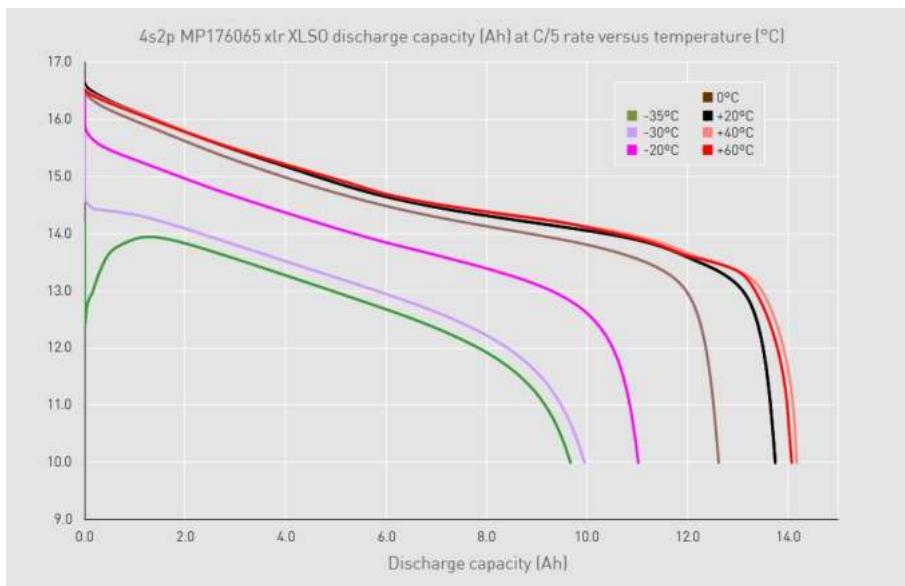
Transport and storage

- The storage time of the battery can be
extended thanks to its low self-discharge
and its low self-heating
- no protection against short circuit
or overcharge when stored at +40 °C max

Warranty

- 5 years guarantee on all the year,
discharge, temperature and do not
overheat (%)
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Environmental requirement	Standard reference
High Temperature	810E, 501.3 (+60°C)
Low Temperature	810E, 502.3 (-20°C)
Vibration	810C, 514.2 H
Shock	810E, 516.4
Salt Fog	810E, 509.3 I
Immersion	810E, 512.3
Saft's Part Number	70415N
Saft internal battery designation	4s2p MP176065 xlr XLSO



Saft

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