LiPo cell 1S, 900 mAh, with protection circuit

Single cell with PCB and lead wires

Lithium polymer cell, format 702548, with protection circuit (PCB) against overcharge, over-discharge, overcurrent and short circuit. We adapt cable length, connector and capacity.



3.7 V	900 mAh	0.9 A	3.33 Wh
NOMINAL VOLTAGE	CAPACITY	CONTINUOUS (1C)	ENERGY

ELECTRICAL DATA

Cell chemistry	Lithium polymer ($LiCoO_2$)
Configuration	1S, with protection circuit
Capacity	900 mAh (0.2C)
Nominal voltage	3.7 V
Charge voltage	4.2 V
Discharge cut-off	3.0 V
Energy	3.33 Wh
Max. continuous current	0.9 A (1C)
Burst	1,8 A (2C)
Standard charge current	0.18 A (0.2C)
Fast charge current	0,9 A (1C)
Charging method	CC/CV
Internal resistance	≤ 150 mΩ

MECHANICAL DATA

Cell format	702548
Max. dimensions	7.1 × 25.0 × 50.0 mm
Weight	approx. 15.8 g
Energy density	approx. 211 Wh/kg
Leads	Silicone wire 26 AWG, red (+) and black (–)
Cable length	50 ± 3 mm

PROTECTION CIRCUIT (PCB)

Overcharge protection	4.28 V ± 0.025 V
Over-discharge protection	3.0 V ± 0.1 V
Overcurrent protection	1.5 to 2.5 A
Short-circuit protection	yes

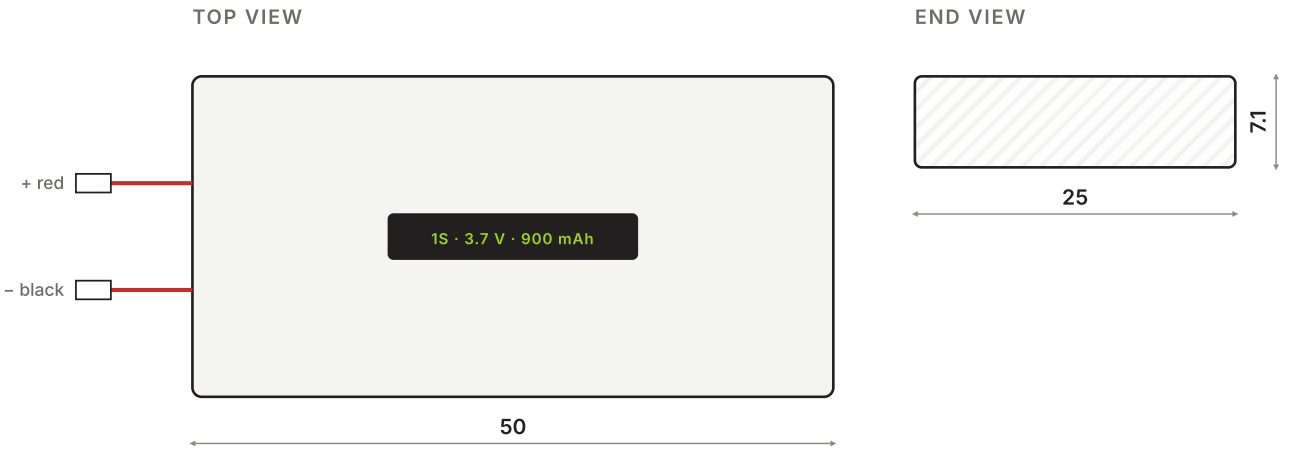
TEMPERATURE AND SERVICE LIFE

Charging	0 to 45 °C
Discharging	−20 to 60 °C
Cycles (0.5C, to 80 %)	≥ 500

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Amtsgericht Bad Oeynhausen HRA 10769

All values are typical at 25 °C. Subject to technical changes and errors.

DIMENSIONAL DRAWING



Schematic drawing, dimensions in mm (maximum). Open lead ends, connector on request.

CERTIFICATES AND DOCUMENTS

UN 38.3	Test report for series production
SDS / MSDS	Safety data sheet available

Transport: Lithium-ion cell with 3.33 Wh: UN 3480. Below 20 Wh per cell, the relaxed shipping rules for small lithium batteries apply.

SAFETY NOTES

1. Charge only with a lithium charger using CC/CV up to 4.2 V.
2. Do not short-circuit, open, puncture or expose to heat above 60 °C. Do not bend the sealing edge or tabs.
3. Do not continue to use damaged, swollen or overheated cells.
4. For storage charge to 3.8 to 3.9 V and keep dry at approx. 23 °C.
5. Dispose of via retailers or municipal collection points, not with household waste. Stiftung EAR reg. no. DE 22562436.

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