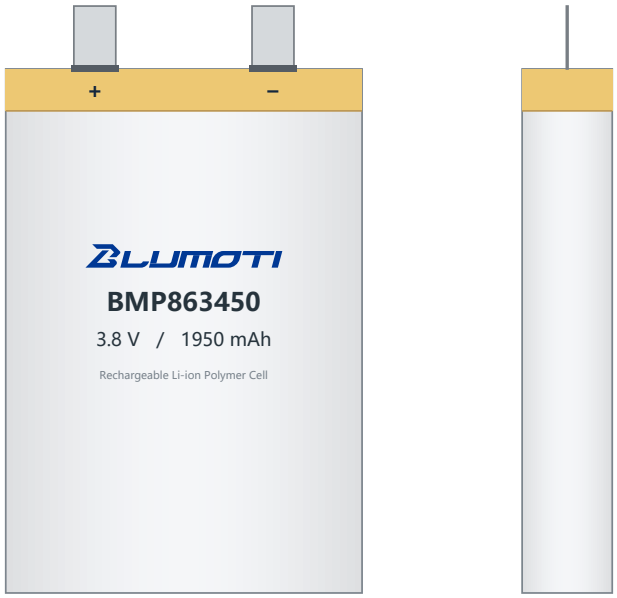
01 / PRODUCT

Cell specification

BMP863450

Rechargeable lithium-ion polymer cell

1950 mAh	3.8 V	7.41 Wh
Rated capacity	Nominal voltage	Nominal energy



Appearance illustration

Scope of application

This specification describes model BMP863450, a 3.8 V, 1950 mAh lithium-ion polymer rechargeable cell. It provides product parameters and dimensional information for selection and sample evaluation.

The dimensions refer to the bare cell. Protection circuits, wires, connectors and housings are not included. A suitable protection circuit is required for the finished battery assembly.

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02 / PERFORMANCE

Electrical characteristics

Parameter	Specification
Rated capacity	1950 mAh
Minimum capacity	1950 mAh
Nominal voltage	3.8 V
Nominal energy	7.41 Wh
Charge limit voltage	4.35 V
Discharge cut-off voltage	3 V
End-of-charge current	0.01 C / 19.5 mA
Standard charge (CC/CV)	0.2 C / 390 mA
Standard discharge	0.2 C / 390 mA
Max. continuous charge	0.5 C / 975 mA
Max. continuous discharge	1 C / 1950 mA
Charge temperature	0 to 45 °C
Discharge temperature	-10 to 60 °C
Storage temperature	-20 to 60 °C
Operating / storage humidity	45–85% RH
Cell weight	< 39 g

C-rate values are based on 1950 mAh. Standard charge: constant current to 4.35 V, followed by constant voltage until the end-of-charge current is reached.

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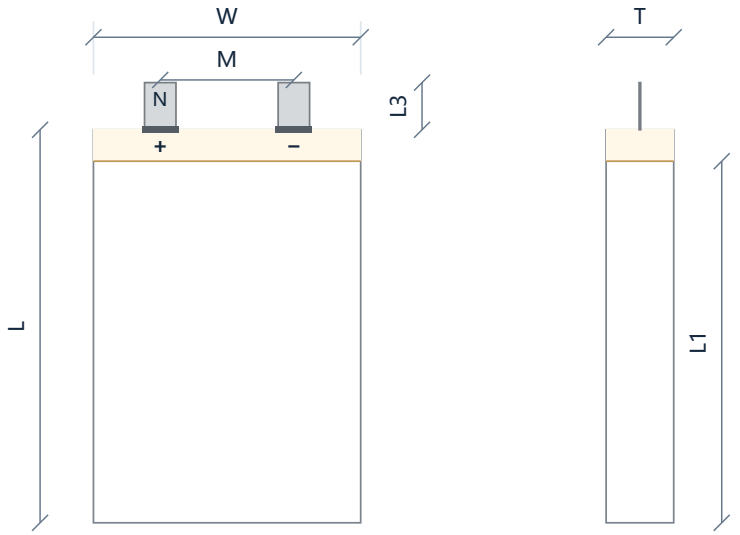
03 / DIMENSIONS

Dimensions & drawing



Schematic drawing. Not to scale.

Symbol	Description	Dimension / mm
T	Thickness	Max. 8.6
W	Width	Max. 34
L	Length	Max. 50
L1	Body dimension L1	Max. 46
L2	Dimension L2	Max. 50.3
L3	Tab protrusion	6 ± 1
M	Tab center spacing	17 ± 1
N	Tab width	4 ± 0.1

L2 is retained as a separate dimensional parameter. Refer to the approved mechanical drawing for assembly design.

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