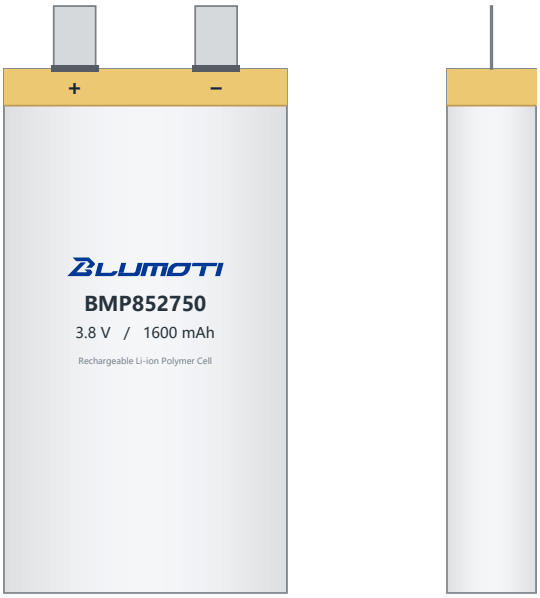
01 / PRODUCT

Cell specification

BMP852750

Rechargeable lithium-ion polymer cell

1600 mAh	3.8 V	6.08 Wh
Rated capacity	Nominal voltage	Nominal energy



Appearance illustration

Scope of application

This specification describes model BMP852750, a 3.8 V, 1600 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

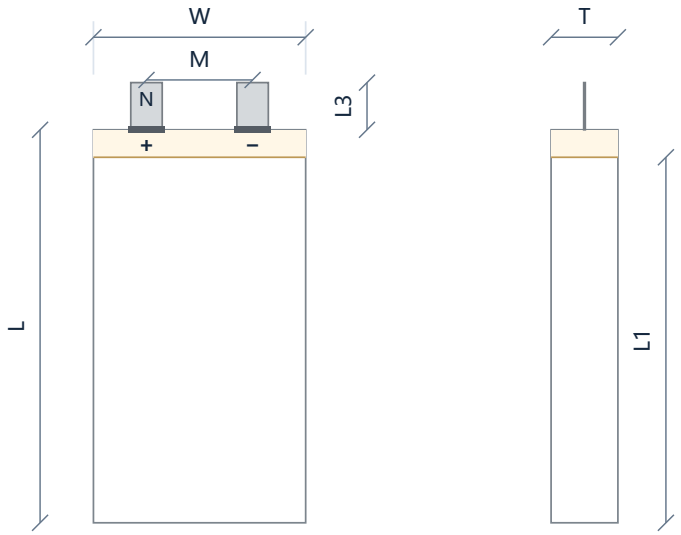
Parameter	Specification
Rated capacity	1600 mAh
Minimum capacity	1600 mAh
Nominal voltage	3.8 V
Nominal energy	6.08 Wh
Charge limit voltage	4.35 V
Discharge cut-off voltage	3 V
End-of-charge current	0.01 C / 16 mA
Standard charge (CC/CV)	0.2 C / 320 mA
Standard discharge	0.2 C / 320 mA
Max. continuous charge	0.5 C / 800 mA
Max. continuous discharge	1 C / 1600 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	< 32 g

C-rate values are based on 1600 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. 8.5
W	Width	Max. 27
L	Length	Max. 50
L1	Body dimension L1	Max. 46.5
L2	Dimension L2	Max. 50.3
L3	Tab protrusion	6 ± 1
M	Tab center spacing	13.5 ± 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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