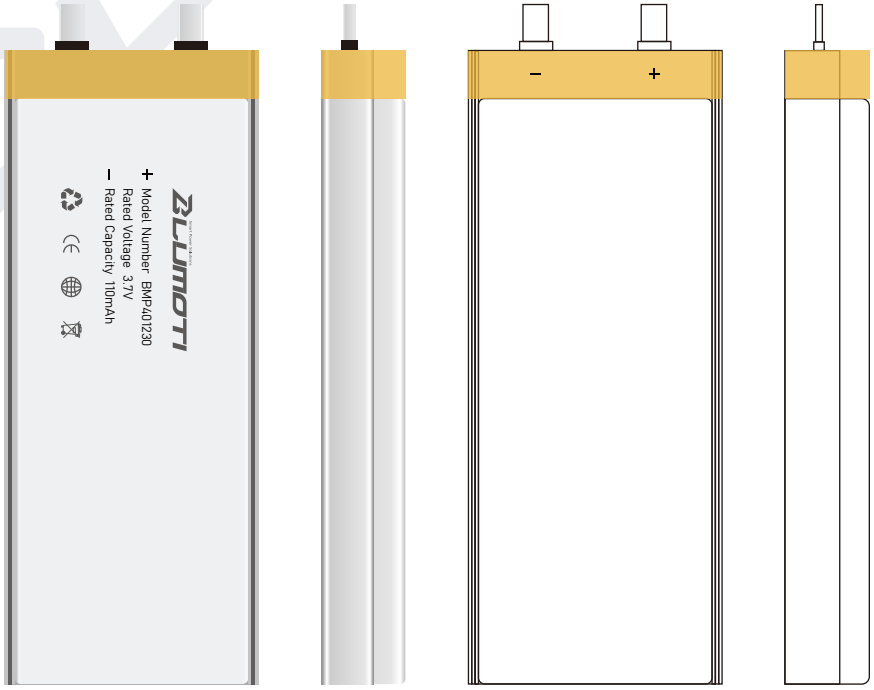
1.Scope of Application

This specification applies to Model BMP401230 lithium-ion polymer rechargeable cells, with a nominal voltage of 3.7 V and a nominal capacity of 110 mAh. This document is intended for product selection, sample confirmation, incoming inspection, and structural design reference.

Unless otherwise agreed, this document refers to bare cells only, excluding protection circuits, thermistors, connecting wires, connectors, adhesive tapes, brackets, or housings. The final finished battery pack must be equipped with protection circuits and structural protection that meet the application requirements.

2.Product Type and Product Model

Item	Specification
2.1 Type	Polymer Li-ion Rechargeable Battery Cell
2.2 Model	BMP401230

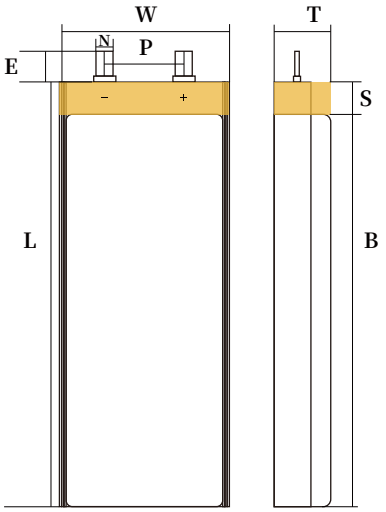


3.Basic Product Characteristics

NO.	Item		Characteristics
3.1	Rated Capacity		110 mAh
3.2	Minimum Capacity		110 mAh
3.3	Nominal Voltage		3.7 V
3.4	Rated Energy		0.407 Wh
3.5	Charge Limit Voltage		4.20 V
3.6	Discharge Cut-off Voltage		3.0 V
3.7	End-of-charge Current		0.01 C = 1.1 mA
3.8	Standard Charge		Charge at 0.2C =22 mA with constant current to the charge limit voltage, then charge at constant voltage until the end-of-charge current is reached.
3.9	Standard Discharge		Discharge at 0.2 C= 22 mA with constant current to the discharge cut-off voltage.
3.10	Maximum Continuous Charge Current		0.5 C, 55 mA
3.11	Maximum Continuous Discharge Current		1.0 C, 110 mA
3.12	3.12.1	Charge Temperature Range	0 °C–45 °C
	3.12.2	Discharge Temperature Range	-10 °C to 60 °C
	3.12.3	Storage Temperature Range	-20 °C to 60 °C
3.13	Operating and Storage Humidity Range		65±20% RH
3.14	Weight		Less than 2.0 g

✳Note: C-rate is calculated based on the nominal capacity of 110 mAh.

4.Cell Dimensions



Item	Description	Dimension
W	Cell Width	Max 12.0 mm
T	Cell Thickness	Max 4.0 mm
L	Cell Length Excluding Tabs	Max 30.0 mm
B	Main Body Length	Max 26.5 mm
S	Top Seal Width	3.5 mm ± 0.5 mm
E	Tab Protrusion Length	8.0 mm ± 1.0 mm
P	Tab Center-to-Center Pitch	6.5 mm ± 1.0 mm
N	Tab Width	3.0mm±0.1mm

Unit: mm
Drawing not to scale. Dimensions shown shall prevail.
B and S are reference dimensions. Overall dimension L shall prevail.

5.Cell Appearance Drawing