

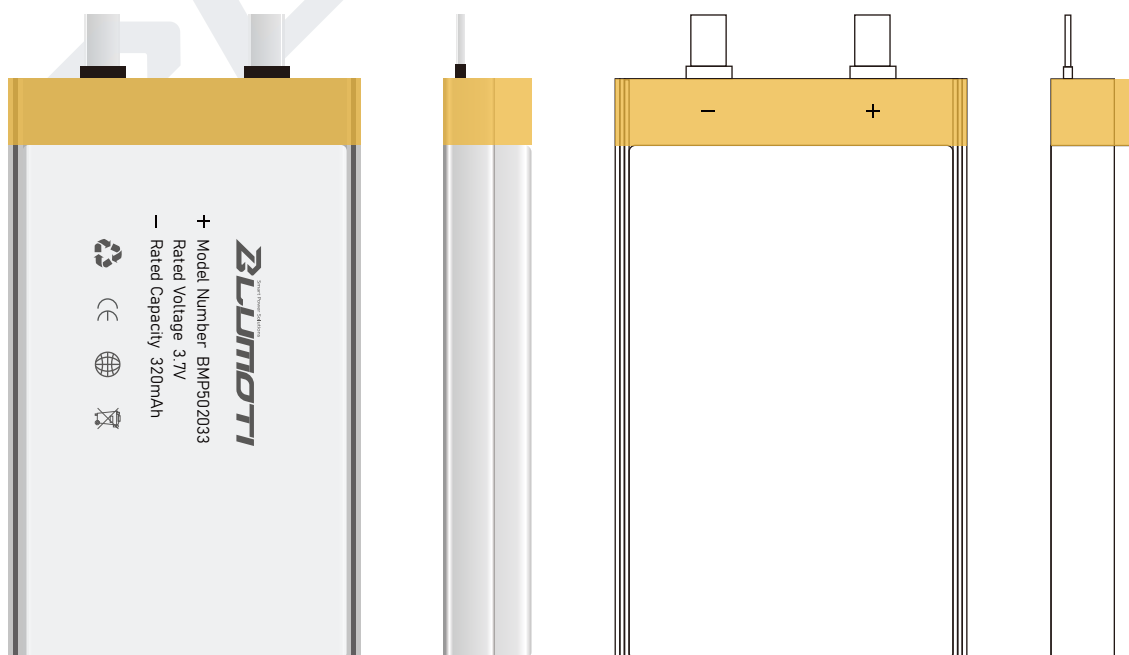
1.Scope of Application

This specification applies to Model BMP502033 lithium-ion polymer rechargeable cells, with a nominal voltage of 3.7 V and a nominal capacity of 320 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	BMP502033

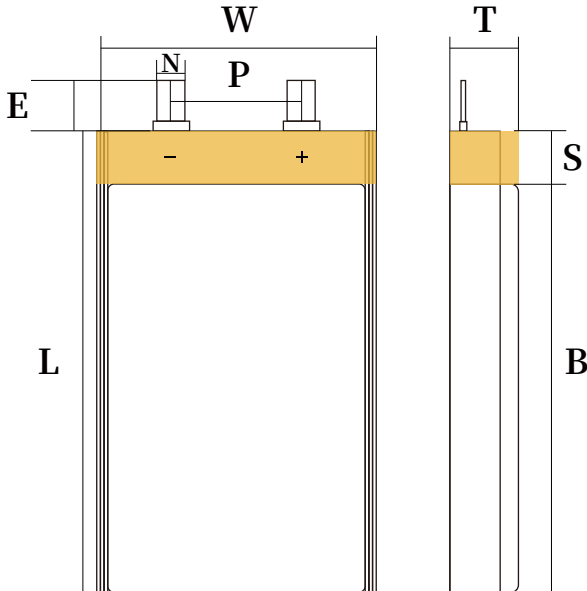


3. Basic Product Characteristics

NO.	Item		Characteristics
3.1	Rated Capacity		320mAh
3.2	Minimum Capacity		320 mAh
3.3	Nominal Voltage		3.7 V
3.4	Rated Energy		1.184 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 = 3.2 mA
3.8	Standard Charge		Charge at 0.2C = 64 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 = 64 mA with constant current to the discharge cut-off voltage.
3.10	Maximum Continuous Charge Current		0.5 C, 160 mA
3.11	Maximum Continuous Discharge Current		1.0 C, 320 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 5.0 g

*Note: C-rate is calculated based on the nominal capacity of 320 mAh.

4.Cell Dimensions



Item	Description	Dimension
W	Cell Width	Max 20.0 mm
T	Cell Thickness	Max 5.0 mm
L	Cell Length Excluding Tabs	Max 33.0 mm
B	Main Body Length	Max 28.5 mm
S	Top Seal Width	3.5 mm $\pm$ 0.5 mm
E	Tab Protrusion Length	8.0mm $\pm$ 1.0mm
P	Tab Center-to-Center Pitch	10.5 mm $\pm$ 1.0 mm
N	Tab Width	6.0 mm $\pm$ 0.1 mm

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

