

Lithium ion Polymer (LP) Battery Individual Data Sheets

LP-502030 have a combination of high energy density, super light and ultra thin. It's a perfect power source solution for low power consumption device (such as wireless headset, wireless mouse etc.).

Specifications

Nominal voltage	3.7V	Cut-off voltage	3.0V
Standard charge method	Charging the cell initially with constant current at 0.5C and then with constant voltage at 4.2V till charge current $<0.1C$		
Max. charge current	1C	Max. discharge current	1C
Standard charge	0.5C \times 5hrs	Rapid charge	1C \times 2.5hrs
Operating temperature		$^{\circ}C$	$^{\circ}F$
	Charging	0 $^{\circ}C$ ~ 45 $^{\circ}C$	32 $^{\circ}F$ ~ 113 $^{\circ}F$
	Discharging	-20 $^{\circ}C$ ~ 60 $^{\circ}C$	-4 $^{\circ}F$ ~ 140 $^{\circ}F$
	Storage	-20 $^{\circ}C$ ~ 45 $^{\circ}C$	-4 $^{\circ}F$ ~ 113 $^{\circ}F$
Cycle Life	≥ 500 Cycles (@0.2C discharge, 23 $^{\circ}C$)		Self-discharge Residual capacity $> 90\%$ (@25 $^{\circ}C$ $\pm 2^{\circ}C$, 30 days)

Remark:

*1 @ 0.2C discharge, 23 $^{\circ}C$

*2 Impedance is measured at AC 1KHz after Standard Charge.

*3 Cell weight is the approximate value for reference.

Cell Dimension

	mm	inch
Length	30.0 \pm 0.5	1.18 \pm 0.02
Width	20.0 \pm 0.5	0.79 \pm 0.02
Thickness	Max. 5.20	Max. 0.20

