

# Lithium ion Polymer (LP) Battery Individual Data Sheets

**LP-382030** 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	$\geq 500$ Cycles (@0.2C discharge, 23 $^{\circ}C$ )		Self-discharge Residual capacity $> 90\%$ (@25 $^{\circ}C$ $\pm 2^{\circ}C$ , 30 days)

### Remark:

\*<sup>1</sup> @ 0.2C discharge, 23 $^{\circ}C$

\*<sup>2</sup> Impedance is measured at AC 1KHz after Standard Charge.

\*<sup>3</sup> 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. 4.00	Max. 0.16

