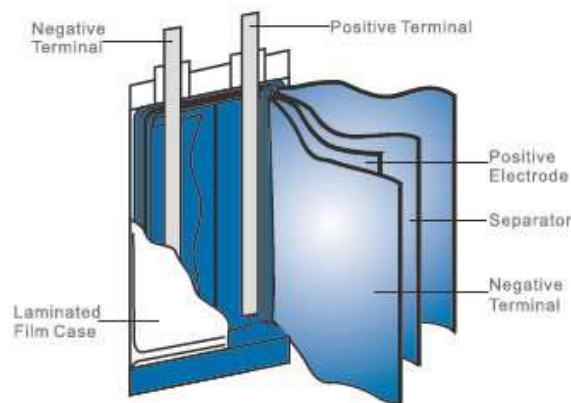


Li-Polymer Battery Rechargeable

CELL CONSTRUCTIONS



Positive: Pre-lithiated transition metal oxides, such as lithium cobalt oxide, lithium manganese oxide and etc.

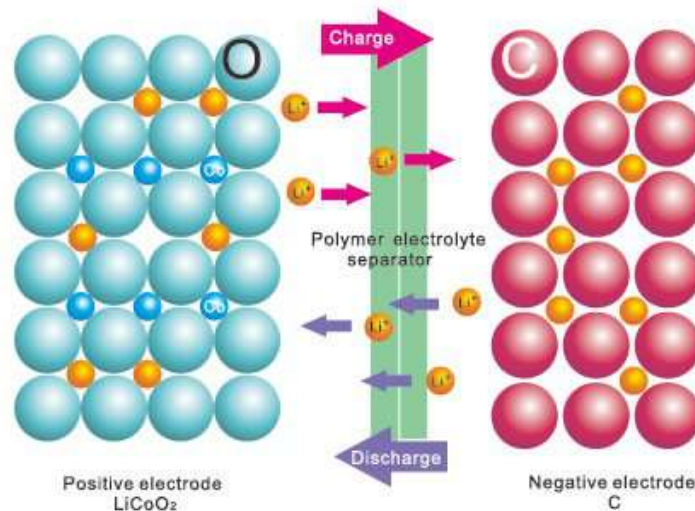
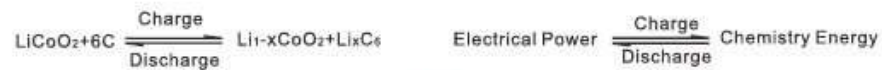
Negative: carbon materials with special structures, such as soft carbon, hard carbon graphite and graphite carbon fibers and etc.

Electrolyte: organic solvents and lithium salt solution.

Separator: porous polypropylene (PP) or polyethylene(PE)

Packaging materials: aluminum composite film, steel casing or aluminum casing

LITHIUM ION POLYMER BATTERY THEORY

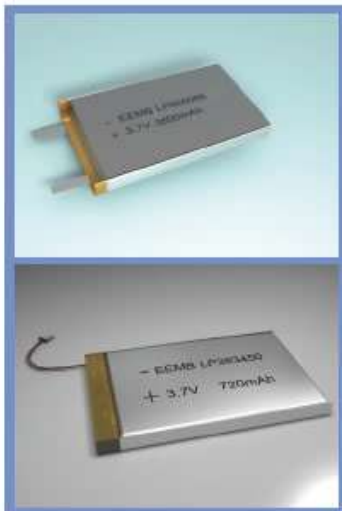


■ MAIN FEATURES

- ✦ Excellent high power discharge
- ✦ Extremely safe
- ✦ Long cycle life
- ✦ Design flexible
- ✦ Lighter & thinner
- ✦ Low self-discharge rate
- ✦ Environmentally friendly

■ APPLICATIONS

- ✦ R/C Flying Models, Racing Car
- ✦ Portable DVD, MP3, MP4
- ✦ Bluetooth, Wireless Devices
- ✦ GPS
- ✦ PDA, Digital Camera
- ✦ Electric Bicycle, Power Tools



APPLICATIONS



Product Specification

STANDARD VERSION							
Model	Nominal Voltage (V)	Nominal Capacity(mAh)		Dimension (mm)			Approx. Weight(g)
		Typical	Minimum	Thickness	Width	Height	
LP451124	3.7	65	60	4.5	11	24	1.5
LP531125	3.7	80	75	5.3	11	25	2.0
LP551125	3.7	85	80	5.5	11	25	2.0
LP201130	3.7	40	35	2.0	11	30	1.0
LP301130	3.7	55	50	3.0	11	30	1.2
LP401230	3.7	100	90	4.0	12	30	2.0
LP501230	3.7	130	120	5.0	12	30	2.5
LP401235	3.7	130	120	4.0	12	35	2.5
LP501235	3.7	155	150	5.0	12	35	3.2
LP551235	3.7	170	160	5.5	12	35	3.5
LP601235	3.7	190	180	6.0	12	35	4.0
LP451418	3.7	68	60	4.5	14	18	1.5
LP401429	3.7	130	120	4.0	14	29	2.8
LP501429	3.7	155	145	5.0	14	29	3.5
LP501622	3.7	125	115	5.0	16	22	2.5
LP601622	3.7	150	140	6.0	16	22	3.0
LP801622	3.7	200	190	8.0	16	22	4.0
LP451630	3.7	170	160	4.5	16	30	3.5
LP301730	3.7	100	90	3.0	17	30	2.0
LP401730	3.7	150	140	4.0	17	30	3.0
LP601730	3.7	260	250	6.0	17	30	5.5
LP351745	3.7	200	190	3.5	17	45	4.0
LP401745	3.7	250	230	4.0	17	45	5.0
LP501745	3.7	320	300	5.0	17	45	6.5
LP461845	3.7	290	280	4.6	18	45	6.0
LP302024	3.7	100	90	3.0	20	24	2.0
LP382024	3.7	150	140	3.8	20	24	3.0
LP402024	3.7	165	155	4.0	20	24	3.5
LP452024	3.7	185	175	4.5	20	24	3.8
LP602024	3.7	210	200	6.0	20	24	4.5
LP242030	3.7	120	110	2.4	20	30	2.5
LP302030	3.7	140	130	3.0	20	30	3.0
LP352030	3.7	160	150	3.5	20	30	3.2
LP382030	3.7	175	165	3.8	20	30	3.5
LP402030	3.7	190	180	4.0	20	30	4.0
LP452030	3.7	230	220	4.5	20	30	4.8
LP502030	3.7	250	230	5.0	20	30	5.0
LP552030	3.7	270	260	5.5	20	30	5.5
LP582030	3.7	290	270	5.8	20	30	6.0
LP602030	3.7	310	290	6.0	20	30	6.2
LP652030	3.7	330	310	6.5	20	30	6.5
LP702030	3.7	350	330	7.0	20	30	7.0
LP402035	3.7	220	200	4.0	20	35	4.5
LP222036	3.7	95	85	2.2	20	36	2.0
LP352036	3.7	180	170	3.5	20	36	3.6
LP382036	3.7	185	175	3.8	20	36	3.8
LP402036	3.7	220	200	4.0	20	36	4.5
LP452036	3.7	250	240	4.5	20	36	5.0
LP502036	3.7	310	290	5.0	20	36	6.5
LP532036	3.7	340	320	5.3	20	36	7.0
LP552036	3.7	360	340	5.5	20	36	7.5

✳ The thickness can be adjusted while the length and width of the battery remain the same.

Product Specification

STANDARD VERSION							
Model	Nominal Voltage (V)	Nominal Capacity(mAh)		Dimension (mm)			Approx. Weight(g)
		Typical	Minimum	Thickness	Width	Height	
LP402040	3.7	270	250	4.0	20	40	5.5
LP502040	3.7	340	320	5.0	20	40	7.0
LP602040	3.7	450	430	6.0	20	40	9.0
LP852040	3.7	620	580	8.5	20	40	12.5
LP452050	3.7	400	380	4.5	20	50	8.0
LP402060	3.7	450	430	4.0	20	60	9.0
LP202235	3.7	100	95	2.0	22	35	2.0
LP452235	3.7	280	260	4.5	22	35	6.0
LP402245	3.7	330	300	4.0	22	45	6.5
LP582245	3.7	560	530	5.8	22	45	11.5
LP822245	3.7	800	750	8.2	22	45	16.0
LP952245	3.7	900	850	9.5	22	45	18.0
LP602248	3.7	600	550	6.0	22	48	12.0
LP782426	3.7	420	400	7.8	24	26	8.4
LP642431	3.7	420	400	6.4	24	31	8.4
LP652438	3.7	540	500	6.5	24	38	11.0
LP752438	3.7	600	580	7.5	24	38	12.0
LP552530	3.7	330	300	5.5	25	30	6.6
LP402535	3.7	320	300	7.8	25	35	6.5
LP482648	3.7	500	450	4.8	26	48	10.0
LP542730	3.7	380	350	5.4	27	30	7.5
LP602730	3.7	420	400	6.0	27	30	8.5
LP652730	3.7	450	430	6.5	27	30	9.0
LP372945	3.7	420	380	3.7	29	45	8.5
LP422945	3.7	500	480	4.2	29	45	10.0
LP502945	3.7	650	600	5.0	29	45	13.0
LP602945	3.7	800	750	6.0	29	45	16.0
LP102945	3.7	1300	1200	10.0	29	45	26.0
LP403026	3.7	260	240	4.0	30	26	5.3
LP453026	3.7	280	260	4.5	30	26	5.8
LP603026	3.7	420	400	6.0	30	26	8.5
LP803026	3.7	500	450	8.0	30	26	10.0
LP503030	3.7	450	420	5.0	30	30	9.0
LP603030	3.7	480	460	6.0	30	30	10.0
LP403040	3.7	460	430	4.0	30	40	9.5
LP503040	3.7	600	570	5.0	30	40	12.0
LP653040	3.7	820	750	6.5	30	40	15.5
LP753042	3.7	900	850	7.5	30	42	18.0
LP833042	3.7	850	800	8.3	30	42	17.5
LP553043	3.7	700	650	5.5	30	43	14.0
LP403048	3.7	560	520	4.0	30	48	11.5
LP423048	3.7	600	580	4.2	30	48	12.0
LP453048	3.7	600	580	4.5	30	48	12.0
LP483048	3.7	670	620	4.8	30	48	13.5
LP503048	3.7	700	650	5.0	30	48	14.0
LP523048	3.7	750	700	5.2	30	48	15.0
LP603048	3.7	850	800	6.0	30	48	17.0
LP623048	3.7	920	870	6.2	30	48	18.5
LP703048	3.7	1050	950	7.0	30	48	21.0
LP753048	3.7	1100	1000	7.5	30	48	22.0
LP803048	3.7	1150	1050	8.0	30	48	23.0
LP883048	3.7	1300	1200	8.8	30	48	26.0

✳ The thickness can be adjusted while the length and width of the battery remain the same.

Product Specification

STANDARD VERSION							
Model	Nominal Voltage (V)	Nominal Capacity(mAh)		Dimension (mm)			Approx. Weight(g)
		Typical	Minimum	Thickness	Width	Height	
LP503090	3.7	1400	1300	5.0	30	90	28.0
LP523090	3.7	1550	1450	5.2	30	90	31.0
LP803090	3.7	2300	2100	8.0	30	90	46.0
LP883090	3.7	2500	2400	8.8	30	90	50.0
LP553250	3.7	1000	950	5.5	32	50	20.0
LP853250	3.7	1400	1300	8.5	32	50	28.0
LP853259	3.7	1750	1650	8.5	32	59	35.0
LP453436	3.7	550	500	4.5	34	36	11.0
LP553436	3.7	630	600	5.5	34	36	13.0
LP603440	3.7	780	730	6.0	34	40	15.0
LP683440	3.7	900	850	6.8	34	40	18.0
LP513446	3.7	900	820	5.1	34	46	18.0
LP403448	3.7	620	580	4.0	34	48	12.5
LP423448	3.7	660	630	4.2	34	48	13.5
LP503448	3.7	880	850	5.0	34	48	17.5
LP523448	3.7	900	870	5.2	34	48	18.0
LP603448	3.7	1000	950	6.0	34	48	20.0
LP663448	3.7	1050	1000	6.6	34	48	21.5
LP703448	3.7	1150	1050	7.0	34	48	23.5
LP753448	3.7	1250	1150	7.5	34	48	25.0
LP803448	3.7	1350	1250	8.0	34	48	27.0
LP953448	3.7	1500	1400	9.5	34	48	30.0
LP103448	3.7	1800	1700	10.0	34	48	36.0
LP603449	3.7	1100	1050	6.0	34	49	22.0
LP293450	3.7	430	400	2.9	34	50	9.0
LP323450	3.7	500	460	3.2	34	50	10.0
LP383450	3.7	600	550	3.8	34	50	12.0
LP423450	3.7	660	610	4.2	34	50	14.0
LP483450	3.7	800	750	4.8	34	50	16.0
LP503450	3.7	800	750	5.0	34	50	16.0
LP533450	3.7	900	850	5.3	34	50	18.0
LP603450	3.7	1000	900	6.0	34	50	20.0
LP703450	3.7	1250	1150	7.0	34	50	25.0
LP803450	3.7	1400	1300	8.0	34	50	28.0
LP903450	3.7	1650	1550	9.0	34	50	33.0
LP953450	3.7	1800	1700	9.5	34	50	36.0
LP963450	3.7	1800	1700	9.6	34	50	36.0
LP103450	3.7	1850	1750	10.0	34	50	37.0
LP243454	3.7	350	330	2.4	34	54	7.0
LP343454	3.7	570	500	3.4	34	54	11.5
LP363454	3.7	640	600	3.6	34	54	13.0
LP383454	3.7	750	700	3.8	34	54	15.0
LP423454	3.7	770	720	4.2	34	54	15.5
LP523454	3.7	900	850	5.2	34	54	18.0
LP553454	3.7	1050	1000	5.5	34	54	21.0
LP623454	3.7	1200	1100	6.2	34	54	24.0
LP103454	3.7	2000	1900	10.0	34	54	40.0
LP603455	3.7	1200	1100	6.0	34	55	24.0
LP803466	3.7	1900	1800	8.0	34	66	38.0
LP703480	3.7	2000	1900	7.0	34	80	40.0
LP293560	3.7	570	520	2.9	35	60	11.5
LP383560	3.7	850	800	3.8	35	60	17.0

✳ The thickness can be adjusted while the length and width of the battery remain the same.

Product Specification

STANDARD VERSION							
Model	Nominal Voltage (V)	Nominal Capacity(mAh)		Dimension (mm)			Approx. Weight(g)
		Typical	Minimum	Thickness	Width	Height	
LP523560	3.7	1150	1050	5.2	35	60	23.0
LP603560	3.7	1350	1250	6.0	35	60	27.0
LP853560	3.7	1800	1700	8.5	35	60	36.0
LP503562	3.7	1100	1050	5.0	35	62	22.0
LP883650	3.7	1700	1650	8.8	36	50	34.0
LP243759	3.7	420	400	2.4	37	59	8.5
LP483759	3.7	1100	1050	4.8	37	59	22.0
LP503759	3.7	1200	1100	5.0	37	59	24.0
LP543759	3.7	1250	1100	5.4	37	59	25.0
LP583759	3.7	1350	1250	5.8	37	59	27.0
LP653759	3.7	1650	1550	6.5	37	59	33.0
LP903759	3.7	2200	2000	9.0	37	59	44.0
LP503870	3.7	1500	1400	5.0	38	70	30.0
LP613938	3.7	960	900	6.1	39	38	19.5
LP804050	3.7	1700	1600	8.0	40	50	34.0
LP574152	3.7	1250	1150	5.7	41	52	25.0
LP604152	3.7	1350	1250	6.0	41	52	27.0
LP704152	3.7	1500	1400	7.0	41	52	30.0
LP354261	3.7	950	900	3.5	42	61	19.0
LP404261	3.7	1000	950	4.0	42	61	20.0
LP524261	3.7	1400	1300	5.2	42	61	28.0
LP564261	3.7	1500	140	5.6	42	61	30.0
LP604261	3.7	1600	1500	6.0	42	61	32.0
LP754261	3.7	2000	1900	7.5	42	61	40.0
LP804261	3.7	2100	2000	8.0	42	61	42.0
LP504368	3.7	1600	1500	5.0	43	68	32.0
LP804368	3.7	2500	2300	8.0	43	68	50.0
LP274374	3.7	700	650	2.7	43	74	14.0
LP354374	3.7	1000	950	3.5	43	74	20.0
LP404374	3.7	1300	1200	4.0	43	74	26.0
LP504374	3.7	1450	1400	5.0	43	74	29.0
LP604374	3.7	1900	1850	6.0	43	74	38.0
LP704374	3.7	2200	2100	7.0	43	74	44.0
LP854374	3.7	3000	2800	8.5	43	74	60.0
LP654388	3.7	2700	2500	6.5	43	88	54.0
LP7044125	3.7	4200	4000	7.0	44	125	84.0
LP7545135	3.7	4500	4000	7.5	45	135	90.0
LP8545135	3.7	5300	5000	8.5	45	135	106.0
LP384765	3.7	1150	1050	3.8	47	65	23.0
LP504765	3.7	1600	1500	5.0	47	65	32.0
LP544765	3.7	1700	1600	5.4	47	65	34.0
LP604765	3.7	1900	1800	6.0	47	65	38.0
LP654765	3.7	2200	2100	6.5	47	65	44.0
LP704765	3.7	2300	2200	7.0	47	65	46.0
LP804765	3.7	2500	2400	8.0	47	65	50.0
LP844765	3.7	2900	2800	8.4	47	65	58.0
LP884765	3.7	3000	2800	8.8	47	65	60.0
LP6548166	3.7	5300	5000	6.5	48	166	106.0
LP6848166	3.7	5600	5300	6.8	48	166	112.0
LP7548166	3.7	6300	6000	7.5	48	166	126.0
LP8048166	3.7	7000	6600	8.0	48	166	140.0
LP8848166	3.7	8000	7600	8.8	48	166	160.0

✳ The thickness can be adjusted while the length and width of the battery remain the same.

Product Specification



STANDARD VERSION							
Model	Nominal Voltage (V)	Nominal Capacity(mAh)		Dimension (mm)			Approx. Weight(g)
		Typical	Minimum	Thickness	Width	Height	
LP455065	3.7	1500	1400	4.5	49	65	30.0
LP505065	3.7	1800	1700	5.0	49	65	36.0
LP805065	3.7	2700	2600	8.0	49	65	54.0
LP325085	3.7	1350	1250	3.2	50	85	27.5
LP385085	3.7	1600	1500	3.8	50	85	32.0
LP425085	3.7	1850	1750	4.2	50	85	37.0
LP455085	3.7	2200	2100	4.5	50	85	44.0
LP505085	3.7	2300	2100	5.0	50	85	46.0
LP535085	3.7	2400	2200	5.3	50	85	48.0
LP705085	3.7	3100	2900	7.0	50	85	62.0
LP755085	3.7	3300	3100	7.5	50	85	66.0
LP855085	3.7	3600	3400	8.5	50	85	72.0
LP9051109	3.7	5500	5200	9.0	51	109	110.0
LP9551119	3.7	6800	6500	9.5	51	119	136.0
LP455255	3.7	1250	1200	4.5	52	55	25.0
LP525255	3.7	1450	1350	5.2	52	55	29.0
LP555255	3.7	1650	1600	5.5	52	55	33.0
LP605255	3.7	1700	1600	6.0	52	55	34.0
LP475575	3.7	1900	1800	4.7	55	75	38.0
LP525575	3.7	2300	2200	5.2	55	75	46.0
LP605575	3.7	2700	2600	6.0	55	75	54.0
LP305590	3.7	1350	1300	3.0	55	90	27.0
LP365590	3.7	1700	1600	3.6	55	90	34.0
LP385590	3.7	1900	1800	3.8	55	90	38.0
LP405590	3.7	2100	2000	4.0	55	90	42.0
LP455590	3.7	2300	2100	4.5	55	90	46.0
LP505590	3.7	2800	2600	5.0	55	90	56.0
LP545590	3.7	2900	2700	5.4	55	90	58.0
LP605590	3.7	3400	3200	6.0	55	90	68.0
LP675776	3.7	3000	2800	6.7	57	76	60.0
LP5058110	3.7	3500	3300	5.0	58	110	70.0
LP326167	3.7	1300	1200	3.2	61	67	26.0
LP456167	3.7	2000	1900	4.5	61	67	40.0
LP556167	3.7	2300	2100	5.5	61	67	46.0
LP956167	3.7	4000	3800	9.5	61	67	80.0
LP656194	3.7	4000	3800	6.5	61	94	80.0
LP506877	3.7	2800	2700	5.0	68	77	56.0
LP507062	3.7	2100	2000	5.0	70	62	42.0
LP857062	3.7	3800	3600	8.5	70	62	76.0
LP50100100	3.7	4800	4500	5.0	100	100	96.0
LP55100100	3.7	5600	5300	5.5	100	100	112.0
LP61100100	3.7	6800	6400	6.1	100	100	136.0
LP38103122	3.7	4000	3800	3.8	103	122	80.0
LP70103122	3.7	8700	8200	7.0	103	122	174.0

※ The thickness can be adjusted while the length and width of the battery remain the same.

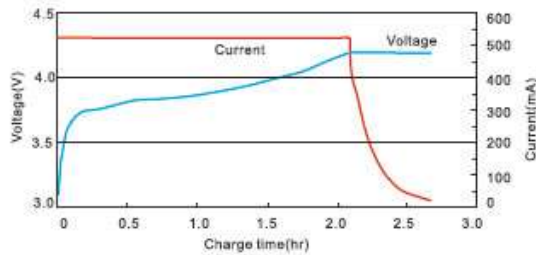
Product Specification

■ ELECTRICAL PERFORMANCE CURVE

(For LP703048 Typical)

Charge Characteristics

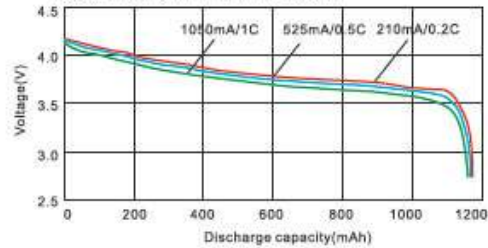
CCCV: 525mA(0.5C) to 4.2V; 4.2V, 3.5hr 21mA cut-off at room temperature



Discharge Characteristics

Charge: CCCV: 525mA(0.5C) to 4.2V; 4.2V, 3.5hr 21mA cut-off at room temperature

Discharge: Constant current to 2.75V cut off



HIGH RATE DISCHARGE VERSION

Model	Nominal Voltage (V)	Nominal Capacity (mAh)		Dimension (mm)			Approx. Weight (g)
		Typical	Minimum	Thickness	Width	Height	
LP452030HA	3.7	160	150	4.5	20	30	4.5
LP353048HA	3.7	270	250	3.5	30	48	7.0
LP403048HA	3.7	400	380	4.0	30	48	10.0
LP423048HA	3.7	430	400	4.2	30	48	28.5
LP503048HA	3.7	550	500	5.0	30	48	13.5
LP703048HA	3.7	800	700	7.0	30	48	19.0
LP883090HA	3.7	2000	1800	8.8	30	90	45.5
LP553448HA	3.7	700	650	5.5	34	48	17.0
LP503450HA	3.7	730	670	5.0	34	50	16.5
LP603450HA	3.7	880	800	6.0	34	50	13.5
LP803454HA	3.7	1150	1050	8.0	34	54	27.5
LP803560HA	3.7	1250	1150	8.0	35	60	30.5
LP503759HA	3.7	850	800	5.0	37	59	22.0
LP454374HA	3.7	1050	1000	4.5	43	74	28.0
LP555590HB	3.7	2300	2100	5.5	55	90	54.5
LP452030HB	3.7	140	130	4.5	20	30	4.5
LP353048HB	3.7	330	300	3.5	30	48	9.0
LP703090HB	3.7	1400	1300	7.0	30	90	35.5
LP803560HB	3.7	1250	1150	8.0	35	60	31.5
LP854374HB	3.7	2100	2000	8.5	43	74	51.5
LP453048HC	3.7	430	400	4.5	30	48	12.0
LP753090HC	3.7	1500	1400	7.5	30	90	40.0
LP683560HC	3.7	1000	950	6.8	35	60	27.5
LP854374HC	3.7	2100	2000	8.5	43	74	55.0
LP683560HD	3.7	1000	950	6.8	35	60	30.0
LP605590HD	3.7	2100	2000	6.0	55	90	67.0

- ✘ HA: 5 C-10 C Continuous Discharge
- ✘ HB: 10 C-15 C Continuous Discharge
- ✘ HC: 15 C-20 C Continuous Discharge
- ✘ HD: 20 C Continuous Discharge

✘ The thickness can be adjusted while the length and width of the battery remain the same.