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BATTERY



A powerful energy solution provider in China makes every effort to satisfy customers need for energy from mobile devices to portable equipments, digital devices to other high-tech equipments.

Lithium Battery Products

www.gaston-narada.com



Lithium-ion Polymer Battery



Special Applications Series

Lithium-ion Polymer Battery

Model	Nominal Capacity(mAh)	Nominal Voltage(V)	Impedance (mohm)	Dimension (mm)		
				Thickness(±0.2)	Width(±0.5)	Length(±0.5)
45103132	5400	3.7	<12	4.5x103x132		
30103132	3600	3.7	<25	3.0x103x132		
555890	2300	3.7	<20	5.5x58x90		
605865	1950	3.7	<20	6.0x58x65		
7059156	6600	3.7	<12	7.0x59x156		



DVD/Notebook Series

Lithium-ion Polymer Battery

Model	Typic Capacity (mAh)	Minimum Capacity (mAh)	Impedance (mohm)	Nominal Voltage(V)	Approx. Weight(g)	Dimension (mm)		
						Thickness(±0.2)	Width(±0.5)	Length(±0.5)
355585	1550	1500	<30	3.7	33.0	3.35x54.5x84.5		
425585	2000	1950	<30	3.7	39.0	4.05x54.5x84.5		
555585	2600	2500	<30	3.7	53.0	5.3x54.5x84.5		
5852146	4400	4200	<20	3.7	100.0	5.8x51.5x145.5		
5550100	2500	2400	<30	3.7	52.0	5.0x49.5x99.5		
5050100	2200	2100	<30	3.7	50.0	5.0x49.5x99.5		
0648135	3600	3500	<25	3.7	85.0	6.0x47.5x134.5		



PDA Series

Lithium-ion Polymer Battery

Model	Typic Capacity (mAh)	Minimum Capacity (mAh)	Impedance (mohm)	Nominal Voltage(V)	Approx. Weight(g)	Dimension (mm)		
						Thickness(±0.2)	Width(±0.5)	Length(±0.5)
255585	1100	1050	<30	3.7	22.5	2.30x54.5x84.5		
483461	1000	950	<30	3.7	20.5	4.60x33.5x60.5		
053759	1100	1080	<30	3.7	21.0	4.80x36.5x59.5		
603759	1300	1250	<30	3.7	25.0	5.80x36.5x58.5		
423467	950	930	<30	3.7	20.5	4.00x33.5x66.5		
053467	1100	1080	<30	3.7	22.5	4.80x33.5x66.5		
423480	1000	980	<30	3.7	20.5	4.00x33.5x79.5		
053480	1350	1200	<30	3.7	26.0	4.80x33.5x79.5		
065152	1400	1350	<30	3.7	28.0	5.85x50.5x51.5		
046066	1600	1550	<30	3.7	33.0	3.80x59.5x65.5		
056066	2100	2050	<30	3.7	39.0	4.85x59.5x65.5		
045280	1800	1750	<30	3.7	34.5	3.80x51.5x79.5		
055280	2300	2250	<30	3.7	42.0	4.80x51.5x79.5		



Lithium-ion Polymer Battery



Blue tooth Series

Lithium-ion Polymer Battery

Model	Typic Capacity (mAh)	Minimum Capacity (mAh)	Impedance (mohm)	Approx. Weight(g)	Nominal Voltage(V)	Dimension (mm)		
						ThicknessxWidthxLength (+0.2)	(+0.5)	(+0.5)
041235	120	100	<165	3.1	3.7	4.0x12.0x35.0		
051235	150	130	<160	3.5	3.7	5.0x12.0x35.0		
061235	160	140	<155	3.6	3.7	5.1x12.0x35.0		
351936	160	150	<150	3.5	3.7	3.30x19.1x36.0		
421936	200	180	<120	4.5	3.7	4.00x19.1x36.0		
252030	90	80	<200	2.0	3.7	2.40x20.0x30.0		
352030	130	120	<150	3.2	3.7	3.30x20.0x30.0		
382030	150	130	<150	3.5	3.7	3.60x20.0x30.0		
042030	170	160	<150	4.0	3.7	3.80x20.0x30.0		
052030	230	220	<120	4.8	3.7	5.00x20.0x30.0		
042025	120	110	<150	3.0	3.7	3.80x20.0x25.0		
052025	150	140	<150	4.0	3.7	4.80x20.0x25.0		
042248	380	370	<120	9.0	3.7	4.00x22.0x48.0		
052248	480	470	<80	10.0	3.7	5.00x22.0x48.0		
052540	400	380	<80	9.0	3.7	4.80x25.0x40.0		
063028	400	380	<100	9.0	3.7	5.80x30.0x28.0		



Mobile phone Series

Lithium-ion Polymer Battery

Model	Typic Capacity (mAh)	Minimum Capacity (mAh)	Impedance (mohm)	Nominal Voltage(V)	Approx. Weight(g)	Dimension (mm)		
						ThicknessxWidthxLength (+0.2)	(+0.5)	(+0.5)
043048	520	500	<45	3.7	12.0	3.80x30.0x48.0		
053048	700	680	<45	3.7	14.0	4.80x30.0x48.0		
063048	820	800	<45	3.7	15.0	5.60x30.0x48.0		
043040	420	400	<45	3.7	11.0	3.80x30.0x40.0		
053040	550	530	<45	3.7	12.5	4.80x30.0x40.0		
363450	580	550	<45	3.7	11.5	3.45x33.5x50.0		
383450	640	620	<45	3.7	12.8	3.62x33.5x50.0		
343455	650	630	<45	3.7	12.5	3.25x33.5x54.5		
383455	700	680	<45	3.7	14.5	3.75x33.5x54.5		
433455	750	730	<45	3.7	15.5	4.10x33.5x54.5		
383456	710	700	<45	3.7	14.5	3.75x33.5x54.5		
323456	500	480	<45	3.7	12.0	3.00x33.5x55.5		
033562	500	470	<45	3.7	12.0	2.85x34.5x61.5		
363562	780	750	<45	3.7	15.0	3.45x34.5x61.5		
383562	850	800	<45	3.7	17.5	3.70x34.5x61.5		
053562	1050	1000	<45	3.7	20.0	4.85x34.5x61.5		
384060	950	920	<45	3.7	18.5	3.60x40.0x60.0		
293459	530	520	<45	3.7	11.0	2.70x33.5x58.5		
254060	650	640	<45	3.7	12.5	2.50x39.5x59.5		
042060	420	400	<45	3.7	11.0	3.80x20.0x59.5		



Lithium-ion Battery

Button Type Lithium-ion Cell

Feature:

High voltage (3.6V); Excellent charge /discharge cycle characteristics; Low self-discharge rate (<10% per month); No memory effect; Wide temperature range - 20°~ +60° ; Excellent safety characteristics;

Applications:

Portable electronic devices, such as mobile phone, notebook computer, PNA, FRS, etc.

Model	Normal Voltage (V)	Normal Capacity (mAh)	Normal current (mA)	Max charge and discharge current(mA)	Pulse current (mA)	Resistance (mohm)	Max dimension DxH(mm)
LIR2025	3.6	20	4	20	50	2000	20.0x2.8
LIR2032	3.6	35	7	35	87	2000	20.0x3.5
LIR2430	3.6	40	8	40	100	2000	24.5x3.4
LIR2450-I	3.6	80	16	80	200	2000	24.5x5.4
LIR2450-II	3.6	110	22	110	275	2000	24.5x5.4
LIR2450-III	3.6	140	28	140	350	2000	24.5x5.4
LIR2477	3.6	130	26	130	325	2000	24.5x8.1

Cylindrical Lithium Ion Cell

Applications:

Portable PC, Satellite communication devices, E-book, Digital video camera, Digital Still Camera, Handheld terminals, PDA, Portable scanner, Other Portable devices.

Model	Nominal Capacity(mAh)	Minimum Capacity(mAh)	Nominal Voltage(V)	Dimension (mm)DxH	Weight(g)
18650	2000	1800	3.7	18.3x65.0	46
18500	1400	1300	3.7	18.3x50.0	32
17670	1400	1300	3.7	16.8x67.0	36
17500	950	850	3.7	17.0x50.0	28
14500	700	650	3.7	14.3x50.0	20
14430	540	500	3.7	14.3x43.0	17.5

Prismatic Lithium-ion Cell

Applications:

Mobile phone, PDA, Digital still camera, MD, MP3players, Other Hi-Tech devices.

Model	Nominal Capacity(mAh)	Minimum Capacity(mAh)	Nominal Voltage(V)	Dimension (mm)DxH	Weight(g)
043048	600	550	3.7	4.4x30x48	14.5
043450	750	700	3.7	4.4x34x50	17.0
053048	700	650	3.7	5.5x30x48	17.5
053450	850	800	3.7	5.4x34x50	20
063048	750	700	3.7	6.2x30x48	22
063450	950	850	3.7	6.3x34x50	24.0
103450	1750	1700	3.7	10.5x33.8x50	40



Primary Lithium Battery

Primary Lithium Button-Type Battery

Feature: High voltage (3V); Excellent leakage resistance; Wide temperature range: (-20°C ~ +60°C);

Applications: Watches; Calculators; Portable computer; Electronic key; Card-type radios IC card Memory card; Electronic healthy care devices; CMOS memory backup power sources.

Model	Nominal voltage(V)	Nominal capacity*1 (mAh)	Standard discharge (mA)	Max. discharge current (mA)		Max. dimensions(mm)	
				Continuous*2	Pulse*3	Diameter(D)	Height(H)
CR1216	3	28	0.05	2	5	12.5	1.6
CR1220	3	35	0.05	2	5	12.5	2.0
CR1225	3	50	0.05	2	5	12.5	2.5
CR1616	3	55	0.1	3	8	16.0	1.6
CR1620	3	70	0.1	3	8	16.0	2.0
CR2016	3	75	0.1	5	17	20.0	1.6
CR2025	3	150	0.2	5	14	20.0	2.5
CR2032	3	210	0.2	4	12	20.0	3.2
CR2032S*4	3	170	1.8			20.0	3.2
CR2320	3	150	0.4	6	25	23.0	2.0
CR2325	3	185	0.4	6	25	23.0	2.5
CR2330	3	255	0.4	6	25	23.0	3.0
CR2430	3	270	0.4	6	21	24.5	5.0
CR2450	3	500	0.2	3	15	24.5	7.7
CR2477	3	800	0.2	3	15	24.5	7.7
CR425	3	25	0.1	0.15	2	4.2	25.9

Note:

- Normal Capacity is measured by discharging the battery in standard discharge current to cutting off voltage 2.0V at 23°C.
- Max continuous discharge current means that 50% of nominal capacity could be obtained when battery is discharged in this current to 2.0V at 23°C.
- Max pulse current means that loaded voltage should be higher than 2.0V at 23°C when a 40% discharged battery is added to this load 15 second.
- "S" indicates high temperature battery, whose nominal capacity is measured by discharging the battery in standard discharge current to 2.0V at 90°C.

Primary Li-MnO₂ Cylindrical Battery

Feature: High voltage (3V); Low self-discharge rate; Wide using temperature range (-20°C ~ +60°C); Excellent leakage resistance. High safety characteristics.

Applications: Cameras, Medical treatment instrument, Lights, Radio, Electronic lock, Electronic meter (water meter, gas meter ammeter, etc), Power source of memory backup meter.

Model	Rated Voltage(V)	Normal Capacity(Ah)	Discharge current(mA)		Weight(g)	Dimension(mm)	
			Max.constant	Max.pulse		Diameter	Height
CR14250	3	0.75	50	250	10	14.0	25.0
CR14505	3	1.8	1000	3000	19	14.0	50.5
CR17335	3	1.4	1000	3000	16	17.0	33.5
CR17450	3	2.2	1500	3500	25	17.0	45.0
CR17505	3	2.5	1500	3500	28	17.0	50.5
CR17345 (CR123A)	3	1.4	1500	3500	16	17.0	34.5
CR11108 (CR1/3N)	3	0.16	60	80	3.3	11.6	10.8
CR15H270 (CR2)	3	0.75	500	1500	11	15.6	27.0
CR-P2	6	1.4	1500	3500	32	17.5+17.5	36.0/19.5
2CR5	6	1.4	1500	3500	32	17.0+17.0	45.0/17.0

Primary Lithium Battery

Primary Li-SOCL₂ Cylindrical Battery

Feature: High rated voltage (3.6V); Low self-discharge rate; 10 years shelf life.

Applications: Water meter; Gas meter; Kilotwatt hour meter; Real-time clock. Apparatus and instrument, CMOS memory backup power source.

Model	Rated Voltage (V)	Normal capacity (Ah)	Discharge current (mA)		Weight (g)	Dimension (mm)	
			Max.constant	Max.pulse		Diameter	Height
ER14250*	3.6	0.9	50	100	10	14.5	25.0
ER14505	3.6	2.0	100	200	19	14.5	50.5
ER26500	3.6	7.5	230	400	52	26.2	50.0
ER34615	3.6	13	230	500	100	34.2	61.5
ER14335	3.6	1.45	50	100	12	14.5	33.5
ER13150	3.6	0.40	2	4	5	13.2	15.0
ER13410	3.6	1.3	50	100	13	13.2	41.0
ER18505	3.6	3.2	100	200	28	18.5	50.5
ER14335M**	3.6	1.1	200	300	12	14.5	33.5
ER18505M	3.6	3.0	1000	2000	28	18.5	50.5
ER26500M	3.6	6.0	1000	2000	52	26.2	50.0
ER14505M	3.6	1.9	1000	1500	19	14.5	50.5
ER14505S	3.6	1.6	100	200	19	14.5	50.5
ER26500S	3.6	4.1	100	200	52	26.2	50.0

Performance at 23°C, Operating temperature -55°C ~ +85°C.

Attentions:

- Do not recharge, disassemble, short circuit, crush, over discharge or operate over the temperature range.
- Do not short circuit or recharge; Do not over-discharge, crush and fire; Put the battery out of the device when the ended Voltage reached

Primary Lithium Sulfur Dioxide (Li-SO₂) Battery

Feature: High energy density, Long storage life, Non-magnetic stainless steel case, hermetically sealed, Be safe for transportation and general shock, Operating voltage between 2.7V~2.9V, wide operating temperature range -55°C~+77°C.

Applications: Military Electronics, Night vision equipment, cryptographs, radio frequency channel selector, target acquisition equipment, toys etc.

Model	Nominal voltage (V)	Nominal capacity (mAh)	Standard discharge (mA)	Max.discharge current (mA)		Max.dimensions (mm)		Weight (g)
				Continuous	Pulse	Diameter (D)	Height (H)	
WR14505	2.9	1100	3	100	200	14.5	50.5	20
WR20590	2.9	2000	10	200	500	20.0	59.0	35
WR26500	2.9	3500	30	1000	2000	26.2	50.0	50
WR34615	2.9	8000	50	2000	5000	34.2	61.5	90
WR41400	2.9	25000	50	2000	5000	41.5	140	280
WR341270	2.9	18000	80	2000	5000	34.2	127	170
WR38500	2.9	9000	80	2000	5000	38.5	50	100

Caution:

- Do not make the battery short-circuit and do not try to charge it.
- Do not over-discharge, press or burn the battery.
- The battery should be removed from the instrument on time when finishing discharging.
- Do not try to solder directly on battery.
- Do not disassemble the batteries.
- Do not use under temperature beyond specified range.

Battery Pack/OEM

Gaston Narada International Ltd welcomes your OEM and we can design products to meet your needs.

1. Mobile phone battery 2. Digital Camera and Camcorder Battery 3. New products

Mobile phone battery:

[Nokia series](#) [Motorola series](#) [Samsung series](#) [Ericsson series](#) [Panasonics series](#) [Siemens series](#)

Nokia series				
Type	Capacity(mAh)	Voltage(V)	Standby(hour)	Cell
8210	700	3.6	50-70	753048
3310	850	3.6	60-90	83448
8110/N	600	7.2	40-60	43AAAx6
8810	850	3.6	70-90	063448
3810/N	600	3.6	40-60	43AAAx5
6110	1100	3.6	80-110	063465
6110NH	900	3.6	80-110	5/3AAAx3
3210NH	1100	2.4	60-90	F6Lx2
7210	600	3.6	40-60	053048
6100	600	3.7	40-60	053048

Samsung Series			
Type	Capacity	Cell	Voltage
S2400	1100	063465	3.6
S600B	1100	063465	3.6
S800	1100	063465	3.6
N188	850	053465	3.6
A188B	550	043555	3.6
A188H	1100	063465	3.6
A288B	600	053048	3.6
A399B	500	043448	3.6
A399H	850	063448	3.6
A288H	700	063048	3.6
A300B	600	053048	3.6
A300H	700	063048	3.6
N288B	550	043048	3.6
N288H	700	063048	3.6
N628	700	063048	3.6
T108H	550	063448	3.6
R208	900	053465	3.6
A400B	550	053048	3.6
A400H	700	063048	3.6
T108B	550	053048	3.6
T408H	700	053048	3.6
T508	550	043048	3.7
N400	850	063448	3.7
SV208B	550		3.7
SV208H	850		3.7
S308B	650		3.6

Panasonic Series			
Type	Capacity	Cell	Voltage
G500N	600	43AAA*4	4.8
GD90	600	053048	3.6
GD92	600	053048	3.6
GD93	600	053048	3.6
GD55	600	053048	3.6
GD75	600	053048	3.6
G600NI	700	5/4AAA*4	4.8
G520/NI	700	50AAA*4	4.8
GD52	650	082247	3.6
GD87	500	383448	3.7
GD35/NI	600	43AAA*3	3.6
GD68	700	063048	3.7

Motorola Series			
Type	Capacity(mAh)	Cell	Voltage
328thin	700	063448	3.6
mt388	900	053465	3.6
928	1100	083448	3.6
998	700	063448	3.6
2688	700	063048	3.6
8088	600	053048	3.6
368c	700	063048	3.6
191N	500	F6M*3	3.6
190	700	063048	3.6
191	700	063048	3.6
E360	500	043048'	3.6
v70	500	053040	3.6
v60B	500	043048	3.6
V66B	500	043048	3.6
V66H	600	053048	3.6
C289	500	043048	3.6
2288	700	5/4AAA*3	3.6
V680	900	063448	3.6
V8060	550	053048	3.6
9988B	500	353450	3.6
V730	900	063448	3.6
6188	850	063448	3.6
328thick	1100	083448	3.6
T720	500	043048	3.6
D560	700	50AAA*4	4.8
C350	600	053048	3.7
C300	600	053048	3.7

Ericsson Series			
Type	Capacity(mah)	Cell	Voltage
688	600	43AAA*4	4.8
T28THIN	550	383555	3.6
T28	700	063048	3.6
3618	700	063048	3.6
T20	1100	083448	7.2
T18	700	5/4AAA*4	4.8
388	600	43AAA*5	4.8
2618	900	083448	3.6
T68	550	053048	3.6
T66	500	043048	3.6
R600	500	053048	3.6

Simense Series			
Type	Capacity	Cell	Voltage
6688B	550	383555	3.6
C2588	950	083046	3.6
3508	900	063448	3.6
C2588/N	600	43AAA*3	3.6
S2588	700	063048	3.6
3508	700	063048	3.6
6618	700	063048	3.6
2118	700	063048	3.6
1118/N	600	43AAA*3	3.6
2128	650	053048	3.6



Gaston Narada International Ltd welcomes your OEM and we can design products to meet your needs.

1. Mobile phone battery 2. Digital Camera and Camcorder Battery 3. New products

Digital Camera/Camcorder Battery:

- Canon series Sony series Panasonic series Fuji series
Nikon series Minoltaseries Casio series Konica series

Digital Camera/Camcorder Battery List

	Model No.	Dimensions & Weight	Cell	Voltage	Capacity	Colour
Canon Series						
	NB-1L/NB-1LH		Li-ion	3.7V	700mAh/1000mAh	Black
	Dimensions:	49.80x32.20x10.60mm				
	Weight:	27g/29g				
	BP-511		Li-ion	7.2V	1400mAH	Coffee/Black
	Dimensions:	55.10x38.20x21.00mm				
	Weight:	78g				
	NB-5H		Ni-MH	6V	700mAh	Black
	Dimensions	48.50x33.70x21.60mm				
	Weight	71g				
Sony Series						
	NP-FM50		Li-ION	7.2V	1400mAh	Dark Grey
	Dimensions	55.60x38.30x20.50mm				
	Weight	64g				
Panasonic Series						
	CGR-S602E		Li-ION	3.6V	1400mAh	Dark Grey
	Dimensions	57.30x39.00x22.70mm				
	Weight	75g				
Fuji Series						
	NP-80		Li-ION	3.7V	1400mAh	Dark Grey
	Dimensions	55.35x19.70x20.30mm				
	Weight	37g				
Nikon Series						
	EN-EL1		Li-ION	7.2V	680mAh	Black
	Dimensions	57.10x32.20x15.70mm				
	Weight	46g				
	EN-EL2		Li-ION	3.7V	1000mAh	Black
	Dimensions	53.60x38.60x8.20mm				
	Weight	28g				
Minolta Series						
	NP-200		Li-ion	3.7V	650mAh	Light Grey
	Dimensions	51.80x31.30x6.20mm				
	Weight	21g				
Casio Series						
	NP-20		Li-ion	3.7V	600mAh	Black
	Dimensions	50.90x32.80x4.50mm				
	Weight	18g				
Konica Series						
	DR-LB1		Li-ION	3.7V	800mAh	Black
	Dimensions	67.00x24.60x6.00mm				
	Weight	34g				
Replace Kyocera BP-800S; Sharp AD series; Toshiba PDR-BT9						



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