

# GP Batteries

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# GP Batteries



# Primary Batteries

## Cylindrical Type

### Ultra Plus Alkaline

Model No.	Dimension (mm)		Voltage (V)	Cross Reference			
	Diameter	Height		IEC	JIS	Energizer	Other
13AUP	34.2	61.5	1.5	LR20	LR20	E95	D
14AUP	26.2	50.0	1.5	LR14	LR14	E93	C
15AUP	14.5	50.5	1.5	LR6	LR6	E91	AA
24AUP	10.5	44.5	1.5	LR03	LR03	E92	AAA
1604AUP	26.5(L) x 17.5(W) x 48.5(H)		9.0	6LF22	6LF22	522	-

### Ultra Alkaline

Model No.	Dimension (mm)		Voltage (V)	Cross Reference			
	Diameter	Height		IEC	JIS	Energizer	Other
13AU	34.2	61.5	1.5	LR20	LR20	E95	D
14AU	26.2	50.0	1.5	LR14	LR14	E93	C
15AU	14.5	50.5	1.5	LR6	LR6	E91	AA
24AU	10.5	44.5	1.5	LR03	LR03	E92	AAA
908AU	66.0(L) x 66.0(W) x 111.0(H)		6.0	4LR25	4LR25X	-	-
1604AU	26.5(L) x 17.5(W) x 48.5(H)		9.0	6LF22	6LF22	522	-

### Super Alkaline

Model No.	Dimension (mm)		Voltage (V)	Cross Reference			
	Diameter	Height		IEC	JIS	Energizer	Other
13A	34.2	61.5	1.5	LR20	LR20	E95	D
14A	26.2	50.0	1.5	LR14	LR14	E93	C
15A	14.5	50.5	1.5	LR6	LR6	E91	AA
24A	10.5	44.5	1.5	LR03	LR03	E92	AAA
25A	8.3	42.5	1.5	LR8D425	-	E96	AAAA
312A	62.0(L) x 22.0(W) x 67.0(H)		4.5	3LR12	-	-	-
908A	66.0(L) x 66.0(W) x 111.0(H)		6.0	4LR25	4LR25X	528	-
910A	12.0	30.2	1.5	LR1	LR1	-	N
1604A	26.5(L) x 17.5(W) x 48.5(H)		9.0	6LF22	6LF22	522	-
1412AP	35.5(L) x 9.2(W) x 48.4(H)		6.0	-	-	539	J

### Greencell Extra Heavy Duty (No Lead Added Series)

Model No.	Dimension (mm)		Voltage (V)	Cross Reference			
	Diameter	Height		IEC	JIS	Eveready	Other
13GLF	34.2	61.5	1.5	R20P	R20P	1250	D
14GLF	26.2	50.0	1.5	R14P	R14P	1235	C
15GLF	14.5	50.5	1.5	R6P	R6P	1215	AA
24GLF	10.5	44.5	1.5	R03	R03	1212	AAA
1604GLF	26.5(L) x 17.5(W) x 48.5(H)		9.0	6F22	6F22	1222	-

### Greencell Extra Heavy Duty (Standard Series)

Model No.	Dimension (mm)		Voltage (V)	Cross Reference			
	Diameter	Height		IEC	JIS	Eveready	Other
13G	34.2	61.5	1.5	R20P	R20P	1250	D
14G	26.2	50.0	1.5	R14P	R14P	1235	C
15G	14.5	50.5	1.5	R6P	R6P	1215	AA
24G	10.5	44.5	1.5	R03	R03	1212	AAA
312G	62.0(L) x 22.0(W) x 67.0(H)		4.5	3R12	-	-	-
908G	66.0(L) x 66.0(W) x 111.0(H)		6.0	4R25	4F	509	-
918G	134.0(L) x 70.0(W) x 127.0(H)		6.0	4R25-2	4R25-2	981/1213	-
1604G	26.5(L) x 17.5(W) x 48.5(H)		9.0	6F22	6F22	1222	-

### Supercell Super Heavy Duty

Model No.	Dimension (mm)		Voltage (V)	Cross Reference			
	Diameter	Height		IEC	JIS	Eveready	Other
13S	34.2	61.5	1.5	R20S	R20S	1050	D
14S	26.2	50.0	1.5	R14S	R14S	1035	C
15S	14.5	50.5	1.5	R6S	R6S	1015	AA
24S	10.5	44.5	1.5	R03	R03	912	AAA
312S	62.0(L) x 22.0(W) x 67.0(H)		4.5	3R12	3R12	1289/AD28	210
908S	66.0(L) x 66.0(W) x 111.0(H)		6.0	4R25	4R25X	509/1209	-
918S	134.0(L) x 70.0(W) x 127.0(H)		6.0	4R25-2	4R25-2	918/1231	-
1603S	66.0(L) x 52.0(W) x 81.0(H)		9.0	6F100	6F100	276	-
1604S	26.5(L) x 17.5(W) x 48.5(H)		9.0	6F22	6F22	216	-

### Powercell Heavy Duty

Model No.	Dimension (mm)		Voltage (V)	Cross Reference			
	Diameter	Height		IEC	JIS	Eveready	Other
13E	34.2	61.5	1.5	R20S	R20S	1050	D
14E	26.2	50.0	1.5	R14S	R14S	1035	C
15E	14.5	50.5	1.5	R6S	R6S	1015	AA
24E	10.5	44.5	1.5	R03	R03	912	AAA
1604E	26.5(L) x 17.5(W) x 48.5(H)		9.0	6F22	6F22	1222	-

### Lithium 9V

Model No.	Dimension (mm)		Voltage (V)	Cross Reference			
	Diameter	Height		IEC	JIS	ANSI	Ultralife
CR-V9	26.5(L) x 17.5(W) x 48.5(H)		9.0	-	-	1604LC	U9VL

### Photo Lithium

Model No.	Dimension (mm)		Voltage (V)	Cross Reference			
	Diameter	Height		IEC	JIS	Eveready	Duracell
CR14250	14.5	25.0	3.0	-	-	-	-
CR14500	14.0	50.0	3.0	-	-	-	-
CR2	15.6	27.0	3.0	-	-	-	DLCR2
CR123A	16.8	34.5	3.0	CR17345	-	EL123AP	DL123A
CR-V3	29.0(L) x 14.5(W) x 52.0(H)		3.0	-	-	ELCRV3	CR-V3
CR-P2	34.8(L) x 19.5(W) x 35.8(H)		6.0	CR-P2	-	EL223AP	DL223A
2CR5	34.0(L) x 17.0(W) x 45.0(H)		6.0	2CR5	-	EL2CR5BP	DL245

## Major Applications

Digital cameras,  
mobile tools, motor toys,  
high drain appliances.



# Primary Batteries



## Button Type

### Major Applications

Calculators, electronic toys, hearing aids, lighters, photos and watches.

### Silver Oxide

Model No.	Dimension (mm)		Voltage (V)	Nominal Capacity (mAh)	Cross Reference				
	Diameter	Height			IEC/JIS	Eveready	Varta	Duracell	Sony
301	11.6	4.2	1.55	120	SR43	301	V301	D301	SR43W
303	11.6	5.4	1.55	165	SR44	303	V303	D303	SR44W
315	7.9	1.65	1.55	21	SR67	315	V315	D315	SR716SW
317	5.8	1.65	1.55	11.5	SR62	317	V317	D317	SR516SW
319	5.8	2.7	1.55	20	SR64	319	V319	-	SR527SW
321	6.8	1.65	1.55	16	SR65	321	V321	D321	SR616SW
329	7.9	3.1	1.55	37	-	329	V329	-	-
337	4.8	1.65	1.55	7.5	-	337	-	-	SR416SW
348	4.8	2.15	1.55	12	-	-	-	-	SR421SW
357	11.6	5.4	1.55	165	SR44	357	V357	D357	SR44SW
362	7.9	2.1	1.55	24	SR58	362	V362	D362	SR721SW
364	6.8	2.15	1.55	18	SR60	364	V364	D364	SR621SW
366	11.6	1.65	1.55	33	-	366	-	D366	SR1116SW
370	9.5	2.1	1.55	44	SR69	370	V370	-	SR920SW
371	9.5	2.1	1.55	44	SR69	371	V371	D371	SR920SW
373	9.5	1.65	1.55	26	SR68	373	V373	D373	SR916SW
S76E	11.6	5.4	1.55	130	SR44	S76E	V76PX	MS76	SR44SW
376	6.8	2.6	1.55	30	SR66	376	-	-	SR626W
377	6.8	2.6	1.55	25	SR66	377	V377	D377	SR626SW
379	5.8	2.15	1.55	14	SR63	379	V379	D379	SR521SW
381	11.6	2.1	1.55	40	SR55	381	V381	D381	SR1120SW
384	7.9	3.6	1.55	42	SR41	384	V384	D384	SR41SW
386	11.6	4.2	1.55	120	SR43	386	V386	D386	SR43SW
389	11.6	3.05	1.55	70	SR54	389	V389	D389	SR1130W
390	11.6	3.05	1.55	70	SR54	390	V390	D390	SR1130SW
391	11.6	2.1	1.55	40	SR55	391	V391	D391	SR1120SW
392	7.9	3.6	1.55	42	SR41	392	V392	D392	SR41SW
393	7.9	5.4	1.55	70	SR48	393	V393	D393	SR48W
394	9.5	3.6	1.55	60	-	394	V394	D394	SR936SW
395	9.5	2.7	1.55	55	SR57	395	V395	D395	SR927SW
396	7.9	2.65	1.55	30	SR59	396	V396	D396	SR726W
397	7.9	2.65	1.55	30	SR59	397	V397	D397	SR726SW
399	9.5	2.7	1.55	55	SR57	399	V399	D399	SR927W

### Lithium Cell

Model No.	Dimension (mm)		Voltage (V)	Nominal Capacity (mAh)	Cross Reference			
	Diameter	Height			IEC / JIS	Eveready	Varta	Duracell
CR1/3N	11.6	10.8	3.0	160	CR1/3N	-	-	DL1/3N
CR1025	10.0	2.5	3.0	30	CR1025	ECR1025	CR1025	-
CR1216	12.5	1.6	3.0	25	CR1216	ECR1216	CR1216	-
CR1220	12.5	2.0	3.0	36	CR1220	ECR1220	CR1220	-
CR1616	16.0	1.6	3.0	55	CR1616	ECR1616	CR1616	-
CR1620	16.0	2.0	3.0	78	CR1620	ECR1620	CR1620	-
CR2016	20.0	1.6	3.0	90	CR2016	ECR2016	CR2016	DL2016
CR2025	20.0	2.5	3.0	160	CR2025	ECR2025	CR2025	DL2025
CR2032	20.0	3.2	3.0	220	CR2032	ECR2032	CR2032	DL2032
CR2430	24.5	3.0	3.0	300	CR2430	ECR2430	CR2430	DL2430
CR2450	24.5	5.0	3.0	610	CR2450	ECR2450	CR2450	-

### Major Applications

Computer memory back-ups, photos, remote controls and watches.

### Alkaline

Model No.	Dimension (mm)		Voltage (V)	Nominal Capacity (mAh)	Cross Reference				
	Diameter	Height			IEC	JIS	Eveready	Varta	Duracell
164	6.8	2.15	1.5	8	LR60	-	-	-	LR620
A76	11.6	5.4	1.5	110	LR44	LR44	A76	V13GA	LR44
A76P	11.6	5.4	1.5	140	LR44	LR44	-	-	-
186	11.6	4.2	1.5	70	LR43	LR43	186	V12GA	LR43
189	11.6	3.05	1.5	44	LR54	LR54	189	V10GA	LR54
191	11.6	2.05	1.5	24	LR55	LR55	191	V8GA	-
192	7.9	3.6	1.5	24	LR41	LR41	192	V3GA	-
PX625A	15.6	5.95	1.5	190	LR9	LR9	-	V625U	PX625A

### High Voltage Alkaline

Model No.	Dimension (mm)		Voltage (V)	Nominal Capacity (mAh)	Cross Reference				
	Diameter	Height			IEC	JIS	Eveready	Varta	Duracell
10A	10.0	21.6	9.0	38	-	-	-	-	-
11A	10.0	16.0	6.0	38	-	-	-	-	-
23AE	10.0	28.0	12.0	55	-	-	A23	V23GA	MN21
26A	7.7	15.3	6.0	20	-	-	-	-	-
27A	7.7	28.0	12.0	20	-	-	-	-	-
29A	7.7	21.4	9.0	20	-	-	-	-	-

### High Voltage Silver Oxide

Model No.	Dimension (mm)		Voltage (V)	Nominal Capacity (mAh)	Cross Reference			
	Diameter	Height			IEC / JIS	Eveready	Varta	Duracell
476	13.0	25.2	6.0	165	4SR44	-	V28PX	PX28
476A	13.0	25.2	6.0	105	4LR44	A544	V4034PX	PX28A

### Hearing Aid Zinc Air

Model No.	Dimension (mm)		Voltage (V)	Nominal Capacity (mAh)	Cross Reference			
	Diameter	Height			IEC / JIS	Eveready	Varta	Duracell
ZA10	5.8	3.6	1.4	90	PR536	AC10	-	DA230
ZA13	7.9	5.4	1.4	290	PR48	AC13	V13A	DA13
ZA312	7.9	3.6	1.4	160	PR41	AC312	V312A	DA312
ZA675	11.6	5.4	1.4	630	PR44	AC675	V675HPA	DA675

### Major Applications

Calculators, electronic toys, melody cards, photos, remote controls and watches.

### Major Applications

Electronic toys, electronic instruments, lighters, photos and remote controls.

### Major Applications

Photos and electronic toys.

### Major Applications

Hearing aids and photographic equipments.



# Rechargeable Batteries



## Specifications

### Industrial Series - Cylindrical Type

Cell Size	Model No.	Nominal Voltage (V)	Capacity (0.2C discharge)*(mAh)		Nominal Dimension (mm)		Weight (g)	Standard Charge		1 Hr Charge Current (mA)#	
			Minimum	Typical	Diameter	Height		Current (mA)	Time (hour)		
<b>Standard Series</b>											
AAAA	1/2 AAAA	GP18AAAAH	1.2	180	185	8.6	20.5	4.0	18	16	180
	5/4 AAAA	GP50AAAAALH	1.2	500	520	8.6	52.6	9.5	50	16	500
AAA	1/3 AAA	GP17AAAH	1.2	170	180	10.4	14.1	4.2	17	16	170
	2/3 AAA	GP28AAAM**	1.2	280	290	10.2	29.2	6.4	28	16	280
	AAA	GP50AAAH	1.2	500	520	10.5	43.7	10.5	50	16	500
	AAA	GP55AAAH**	1.2	550	580	10.5	43.7	13	55	16	550
	AAA	GP60AAAH**	1.2	600	630	10.5	43.7	13	60	16	600
	AAA	GP65AAAH**	1.2	650	680	10.5	43.7	13	65	16	650
	AAA	GP70AAAH**	1.2	700	730	10.5	43.7	13	70	16	700
	AAA	GP75AAAH**	1.2	750	780	10.5	43.7	13	75	16	750
	AAA	GP80AAAH	1.2	780	800	10.5	43.7	13	80	16	800
	7/5 AAA	GP100AAAH	1.2	1000	1050	10.5	80	22	100	16	1000
	AAAL	GP80AAALH	1.2	800	820	10.5	50	15	80	16	800
	AAAL	GP85AAALH	1.2	850	880	10.5	50	14.5	85	16	850
	AAAL	GP91AAALH	1.2	910	930	10.5	50	15.1	91	16	910
AA	AA	GP60AAM	1.2	600	620	14.4	48.2	15.5	60	16	600
	AA	GP80AAM	1.2	800	830	14.4	48.2	18	80	16	800
	AA	GP125AAM**	1.2	1250	1300	14.4	48.2	24	125	16	1250
	AA	GP130AAM**	1.2	1300	1340	14.4	48.2	25	130	16	1300
	AA	GP135AAM	1.2	1350	1400	14.4	48.2	22.8	135	16	1350
	AA	GP150AAM**	1.2	1500	1530	14.4	48.2	26	150	16	1500
	AA	GP160AAM**	1.2	1600	1640	14.5	49.2	26	160	16	1600
	AA	GP170AAH**	1.2	1700	1750	14.5	49.2	27	170	16	1700
	AA	GP180AAH**	1.2	1800	1850	14.5	49.2	28	180	16	1800
	AA	GP220AAH	1.2	2200	2250	14.5	49.5	30.5	220	16	2200
AF	1/3 AF	GP45AFH	1.2	450	500	17	16.3	10	45	16	450
	4/5 AF	GP211AFH**	1.2	2100	2160	17	43	33	210	16	2100
	AF	GP230AFH	1.2	2300	2350	17	50	36	230	16	2300
	AF	GP250AFH**	1.2	2500	2550	17	50	39	250	16	2500
	AF	GP270AFH	1.2	2600	2700	17	50	39.5	270	16	2700
7/5 AF	GP380AFH**	1.2	3700	3800	17.5	67	53.5	380	16	3800	
18670	18670	GP450LAH**	1.2	4300	4500	18.3	67	63	450	16	Not Applicable
D	D	GP220DH	1.2	2150	2200	34.2	61.5	71	220	16	Not Applicable

### High Drain Series

AA	AA	GP130AAHE	1.2	1300	1350	14.5	49.2	27	130	16	1300
Sub-C	Sub-C	GP220SCH**	1.2	2200	2310	23	43	55	220	16	2200
	Sub-C	GP260SCHD**	1.2	2340	2600	23	43	56	260	16	2600
	Sub-C	GP330SCH	1.2	3300	3430	23	43	62	330	16	3300
	Sub-C	GP300SCHD	1.2	2700	3000	23	43	59	300	16	3000
D	D	GP700DH**	1.2	7000	7350	33	60	155	700	16	7000
	D	GP800DH	1.2	8000	8400	33	60	168	800	16	Not Applicable
	D	GP900DH**	1.2	9000	9225	33	60	170	900	16	Not Applicable
	D	GP1000DH	1.2	10000	10250	33	60	175	1000	16	Not Applicable
	D	GP1100DH	1.2	11000	11550	33	60	179	1100	16	Not Applicable

Ambient temperature range : Standard charge : 0 to 45°C, Fast charge : 10 to 45°C, Discharge : -20 to 50°C, Storage : -20 to 35°C  
# One hour rate with charge termination control. \* After charging at 0.1C for 16 hours. \*\* With UL approval.

### Industrial Series - Cylindrical Type

Cell Size	Model No.	Nominal Voltage (V)	Capacity (0.2C discharge)*(mAh)		Nominal Dimension (mm)		Weight (g)	Standard Charge		1 Hr Charge Current (mA)#	
			Minimum	Typical	Diameter	Height		Current (mA)	Time (hour)		
<b>High Temperature Series</b>											
AA	AA	GP30AASHT	1.2	290	300	14.5	16.6	8	30	16	Not Applicable
	AA	GP110AAHT	1.2	1100	1155	14.4	48.2	21.5	110	16	Not Applicable
	AA	GP125AAMT**	1.2	1250	1280	14.4	48.2	26	125	16	Not Applicable
AF	4/5 AF	GP160AFHT	1.2	1600	1680	17	43	33	160	16	Not Applicable
	AF	GP210AFHT	1.2	2100	2205	17	50	38	210	16	Not Applicable
Sub-C	Sub-C	GP160SCHT	1.2	1600	1680	23	43	41.5	160	16	Not Applicable
	Sub-C	GP220SCHT**	1.2	2200	2420	23	43	53	220	16	Not Applicable

Ambient temperature range : Standard charge : 0 to 70°C, Fast charge : -20 to 70°C, Discharge : -20 to 35°C, Storage : -20 to 60°C  
# One hour rate with charge termination control. \* After charging at 0.1C for 16 hours. \*\* With UL approval.

### Hobby Series

AF	2/3 AF	GP130AFHR	1.2	1200	1250	17	28.5	23.9	120	16	1200
Sub-C	Sub-C	GP370SCHR**	1.2	3400	3700	23	43	64.5	360	16	3600
	Sub-C	GP390SCH	1.2	3800	3900	23	43	63	380	16	3800
	Sub-C	GP430SCHR	1.2	3700	4100	23	43	62-65.8	390	16	3900

Ambient temperature range : Standard charge : 0 to 45°C, Fast Charge : 10 to 45°C, Discharge : -20 to 50°C, Storage : -20 to 35°C  
# One hour rate with charge termination control. \* After charging at 0.1C for 16 hours. \*\* With UL approval.

### Industrial Series - 9 Volt Type

Cell Size	Model No.	Nominal Voltage (V)	Capacity (0.2C discharge)*(mAh)		Nominal Dimension (mm)		Weight (g)	Standard Charge		1 Hr Charge Current (mA)#
			Minimum	Typical	Diameter	Height		Current (mA)	Time (hour)	
<b>9V Series</b>										
9V	9V	GP17R8H**	8.4	170	175	15.7(T) x 26.5(V) x 48.5(H)	32	17	16	170
	9V	GP17R9H**	9.6	170	175	15.7(T) x 26.5(V) x 48.5(H)	36	17	16	170

Ambient temperature range : Standard charge : 0 to 45°C, Fast charge : 10 to 45°C, Discharge : -20 to 50°C, Storage : -20 to 35°C  
# One hour rate with charge termination control. \* After charging at 0.1C for 16 hours. \*\* With UL approval.

### Major Applications

Cellular phones, cordless phones, transceivers, notebook computers, personal digital assistants (PDAs), portable facsimile machines, digital video cameras, LCD TVs, portable DVD / VCD / MD / CD players, emergency lightings, remote controls and security systems.

### Industrial Series - Prismatic Type

Model No.	Nominal Voltage (V)	Capacity (0.2C discharge)*(mAh)		Nominal Dimension (mm)	Weight (g)	Standard Charge		1 Hr Charge Current (mA)#
		Minimum	Typical			Current (mA)	Time (hour)	
GP5M60	1.2	550	600	6.1(T) x 17.0(W) x 35.3(H)	11	55	16	550
GP5M70	1.2	610	700	6.1(T) x 17.0(W) x 36(H)	11	61	16	610

Ambient temperature range : Standard charge: 0 to 45°C, Fast charge : 10 to 45°C, Discharge : -20 to 50°C, Storage : -20 to 35°C  
# One hour rate with charge termination control. \* After charging at 0.1C for 16 hours.

### Industrial Series - Button Type

Model No.	Nominal Capacity at 5-hr rate (mAh)	Nominal Dimension (mm)		Weight (g)	Standard Charge		Nominal Voltage (V)	End Voltage (V)
		Diameter	Height		Current (mA)	Time (hour)		
<b>High Capacity Series</b>								
GP40BVH <sup>2**</sup>	40	11.7	5.5	1.9	4	16	1.5	1.0
GP80BVH <sup>1**</sup>	80	15.6	6.3	3.7	8	16	1.5	1.0
GP250BVH <sup>2</sup>	250	25.2	6.4	10.9	28	16	1.5	1.0
GP320BVH <sup>1</sup>	320	25.2	8.7	14.1	32	16	1.5	1.0

### Standard Series

GP60BVH <sup>1</sup>	60	15.6	6.3	3.6	6	16	1.5	1.2	1.0
GP280BVH <sup>1</sup>	280	25.2	8.7	12.6	28	16	1.5	1.2	1.0

Ambient temperature range : <sup>1</sup> Standard charge: 0 to 45°C, Discharge : 0 to 45°C, Storage : -20°C to 45°C  
<sup>2</sup> Standard charge : 0 to 65°C, Discharge : -20 to 65°C, Storage : -40 to 65°C

\*\* With UL approval.

# Rechargeable Batteries

## Specifications

### Industrial Series - ReCyko<sup>+</sup> Type

Cell Size	Model No.	Nominal Voltage (V)	Capacity (0.2C discharge)*(mAh)		Nominal Dimension (mm)		Weight (g)	Standard Charge		1 Hr Charge Current (mA)#
			Minimum	Typical	Diameter	Height		Current (mA)	Time (hour)	
<b>ReCyko<sup>+</sup> Series</b>										
AAA	GP85AAAHB**	1.2	800	820	10.5	44.5	14	80	16	800
AA	GP210AAHB**	1.2	2000	2050	14.5	50.5	30	200	16	2000

Ambient temperature range : <sup>1</sup> Standard charge: 0 to 45°C, Discharge : 0 to 45°C, Storage : -20°C to 45°C  
<sup>2</sup> Standard charge : 0 to 65°C, Discharge : -20 to 65°C, Storage : -40 to 65°C      \*\* With UL approval.

### Major Applications

MBU, bridging, portable electronic devices, laptop computers, cordless phones, car alarms, torches, smoke detectors, security alarms.

### Consumer Series

Cell Size	Model No.	Nominal Voltage (V)	Capacity (0.2C discharge)*(mAh)		Nominal Dimension (mm)		Weight (g)	Standard Charge		1 Hr Charge Current (mA)#
			Minimum	Typical	Diameter	Height		Current (mA)	Time (hour)	
<b>Standard Series</b>										
AAA	GP35AAAHC	1.2	350	370	10.5	44.5	7.7	35	16	350
	GP45AAAHC	1.2	450	470	10.5	44.5	12.5	45	16	450
	GP50AAAHC**	1.2	500	520	10.5	44.5	12	50	16	500
	GP55AAAHC**	1.2	550	578	10.5	44.5	13	55	16	550
	GP60AAAHC**	1.2	600	630	10.5	44.5	13	60	16	600
	GP65AAAHC**	1.2	630	650	10.5	44.5	13	65	16	650
	GP70AAAHC**	1.2	680	700	10.5	44.5	13	70	16	700
	GP75AAAHC**	1.2	730	750	10.5	44.5	13	75	16	750
	GP80AAAHC**	1.2	780	800	10.5	44.5	14	80	16	800
	GP85AAAHC	1.2	830	850	10.5	44.5	14.2	85	16	850
GP100AAAHC	1.2	930	970	10.5	44.5	15.2	93	16	930	
AA	GP60AAMC	1.2	600	620	14.5	50.5	15.5	60	16	600
	GP130AAHC**	1.2	1250	1300	14.5	50.5	25	130	16	1300
	GP130AAMC	1.2	1300	1340	14.5	50.5	25	130	16	1300
	GP160AAHC**	1.2	1550	1600	14.5	50.5	26	160	16	1600
	GP180AAHC**	1.2	1750	1800	14.5	50.5	28	180	16	1800
	GP210AAHC**	1.2	2000	2050	14.5	50.5	28	200	16	2000
	GP230AAHC**	1.2	2200	2250	14.5	50.5	29.5	220	16	2200
	GP250AAHC**	1.2	2400	2450	14.5	50.5	31.0	240	16	2400
GP270AAHC**	1.2	2500	2600	14.5	50.5	31.5	250	16	2500	
C	GP220CH	1.2	2150	2200	26.2	50	61	220	16	Not Applicable
	GP350CHC	1.2	3480	3500	26.2	50	78.5	350	16	Not Applicable
D	GP220DH	1.2	2150	2200	34.2	61.5	71	220	16	Not Applicable
	GP450DHC	1.2	4400	4500	34.2	61.5	130	450	16	Not Applicable
	GP700DHC	1.2	6800	7000	34.2	61.5	155	700	16	Not Applicable
	GP900DHC	1.2	8750	9000	34.2	61.5	173	900	16	Not Applicable
9V	GP17R8H**	8.4	170	175	15.7(T) x 26.5(W) x 48.5(H)		32	17	16	170

Ambient temperature range : Standard charge : 0 to 45°C, Fast charge : 10 to 45°C, Discharge : -20 to 50°C, Storage : -20 to 35°C  
 # One hour rate with charge termination control. \* After charging at 0.1C for 16 hours. \*\* With UL approval.

### ReCyko<sup>+</sup> Series

AAA	GP85AAAHCB**	1.2	800	820	10.5	44.5	14	80	16	800
AA	GP210AAHCB**	1.2	2000	2050	14.5	50.5	30	200	16	2000
C	GP260CHB	1.2	2500	2600	26.2	50	62	250	16	2500
D	GP260DHB	1.2	2500	2600	34.2	61.5	72	250	16	2500
9V	GP15R8HB	8.4	150	155	15.7(T) x 26.5(W) x 48.5(H)		32	15	16	150

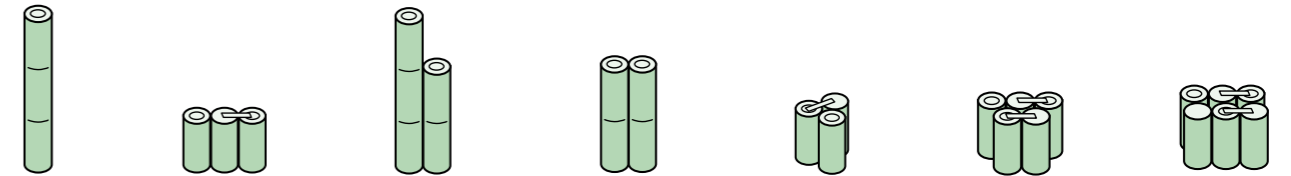
Ambient temperature range : Standard charge : 0 to 45°C, Fast charge : 10 to 45°C, Discharge : -20 to 50°C, Storage : -20 to 30°C  
 # One hour rate with charge termination control. \* After charging at 0.1C for 16 hours. \*\* With UL approval.

### Major Applications

Digital cameras, personal digital assistants (PDAs), portable CD / MD / MP3 players, handheld TVs, palms, racing cars.

## Configurations

### Standard Configurations for Battery Packs



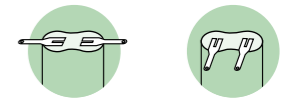
CODE : A	CODE : B	CODE : G	CODE : S	CODE : T	CODE : W	CODE : Y
Cells stacked in a vertical column	Cells arranged in a row	Cells stacked in 2 vertical columns of unequal number of cells	Cells stacked in multiple columns and layers	Cells arranged in a horizontal triangle	Cells arranged in horizontal zig-zag rows (in one or more layers)	Cells arranged in a horizontal rectangle

### Tag Type Specifications



CODE : 1	CODE : 2	CODE : 3	CODE : 4	CODE : 5	CODE : 6
Strip solder tag	PCB solder tag	Double PCB pin at positive terminal and single PCB pin at negative terminal	Solder wire tag	Short strip tag	Lead wire

### Tag Direction Codes



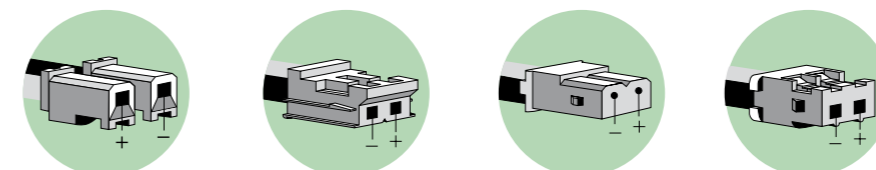
CODE : P	CODE : H
Pointing at 180°	Pointing at the same direction

### Connector Type Specifications

GP Universal Plug - exclusively from GP, offers distinctive features unparalleled in the market.  
 - U.S. patent no. 5,161,990.

#### Major Benefits

- Compatible with most cordless phone models (interchangeable with Mitsumi, JST, Molex plugs etc.)
- Minimise inventory items
- User friendly



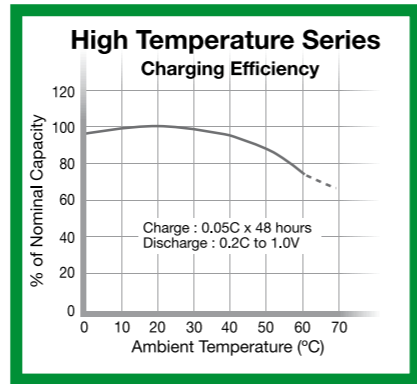
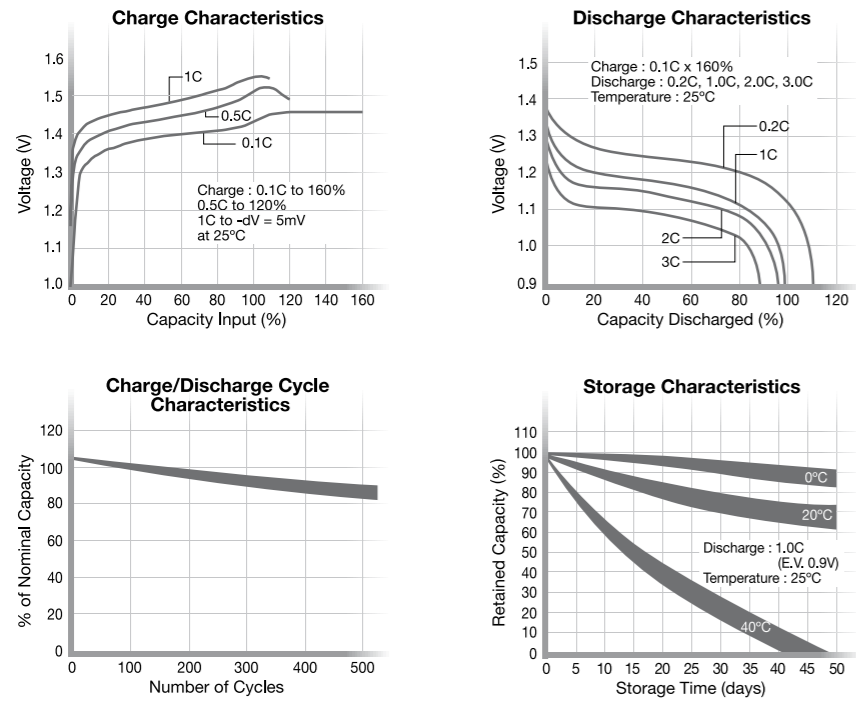
MU	MJ	ML	MS
Universal Plug	JST EHR-2	Molex 5264-02	Mitsumi M63M83-02



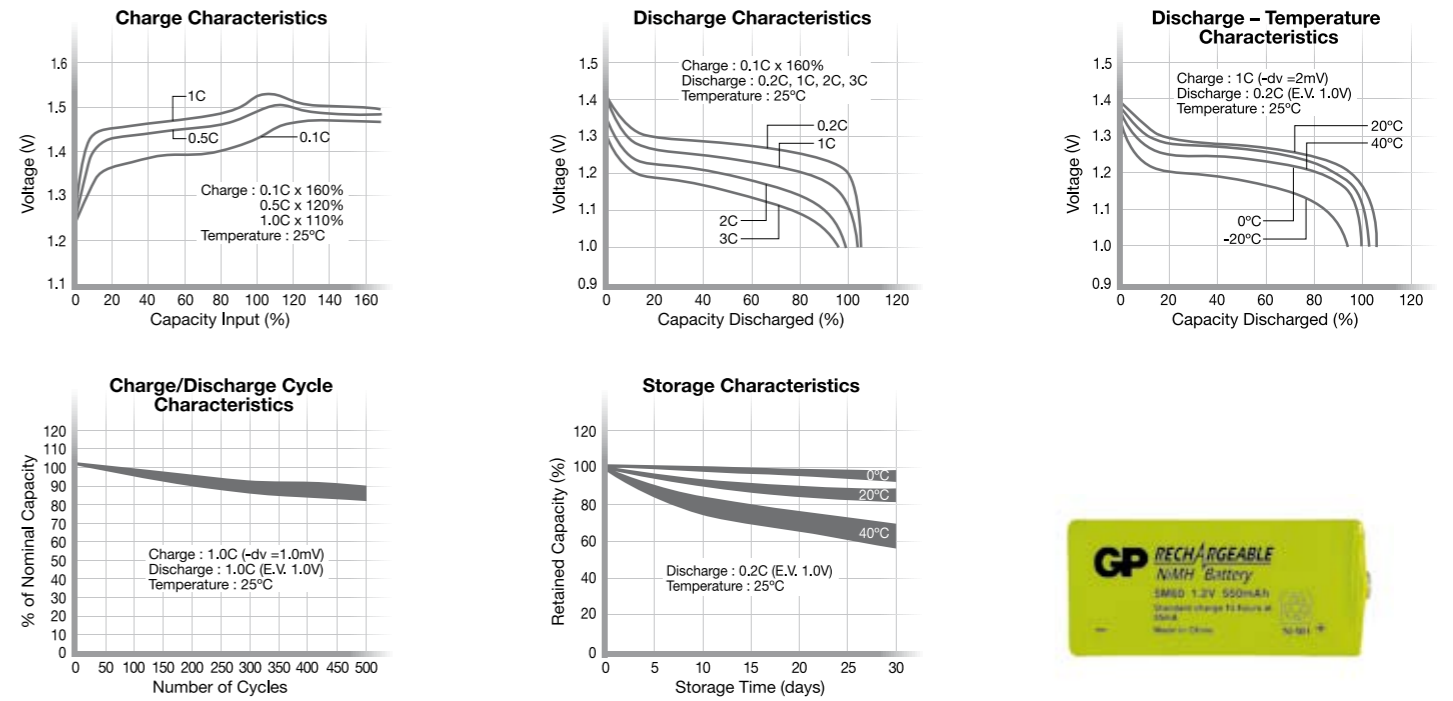
# NiMH Rechargeable Batteries

## Performance Characteristics

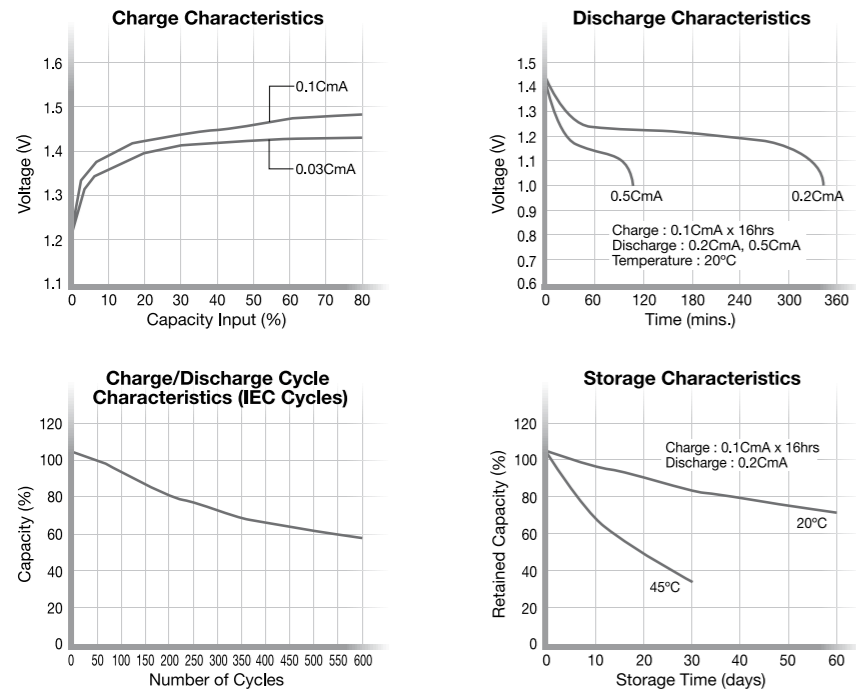
### Cylindrical Cells



### Prismatic Cells



### Button Cells



### 9V Batteries

